

1992 ANNUAL EXHIBITION

Imperial College, London SW7—31 October 1992

The following account of exhibits has been compiled by R. D. G. Barrington (British Butterflies), B. K. West (British Macrolepidoptera), J. M. Chalmers-Hunt (British Microlepidoptera), B. Goater (Foreign Lepidoptera), P. J. Chandler (Diptera), P. J. Hodge (Coleoptera), P. Kirby (Hemiptera), A. J. Halstead (Hymenoptera and other orders) and R. Dyke (Illustrations). The photographs for the two colour plates were taken by D. E. Wilson.

BRITISH BUTTERFLIES

BAILEY, K. E. J.—(1) *Pararge aegeria* L. ab. *cockaynei* Goodson bred by giving overwintering larvae extra warmth in the early spring. A striking *Pyronia tithonus* L. ab. *crassi-excessa* Leeds, Devon 1992, a blackened variety of *Boloria euphrosyne* L. resembling ab. *edna* Lobb, Devon 1992 and a wild-caught *Argynnis lathonia* L., Devon, 1992.

(2) Further results from the exhibitor's inventive programme of temperature experiments. Many notable aberrations were shown including *Argynnis paphia* L. ab. *nigricans* Cosmovici on both type and f. *valezina* Esp. ground colour, and extreme forms of *Polygonia c-album* L. ab. *reichstettensis* Fettig (all produced by changing the larval daylength and cold-shocking the pupae). *Nymphalis polychloros* L. ab. *testudo* Esp. and *Apatura iris* L. abs *lugenda* Cab. and *iolata* Cab. (daylength change plus pupal heat-shock). A series of *Mellicta athalia* Rott. ab. *corythallia* Hübn. (larval cold-stress and pupal cold-shock) and a fine series of varieties of *Eurodryas aurinia* Rott. Ab. *virgata* Tutt was produced by a day-length change to the larvae and pupal cold-shock. A long series of the beautiful ab. *sebaldus* Schultz and intermediates was produced by developing early post-hibernation larvae rapidly under infra-red light and cold-shocking the pupa. This aberration (Plate II, Fig. 8) has the upperside markings streaked and often some are obsolete, and the outer half of the hindwing underside white. This form occasionally turns up in the field, usually when the species is very abundant, which often happens when the weather early in the year is unusually warm. The larvae develop rapidly and so escape the depredations of parasitic wasps.

Plate II. ANNUAL EXHIBITION 1992

1	2	3
4	5	6
7		8
9		10
11		12

1: *Anthocharis cardamines*, albino ab. *lasthenia*, bred, J. H. Payne. 2: *Boloria selene*, bred, A. M. Jones. 3: *Aricia agestis*, ab. *discoelongata*, bred, M. Callow. 4: *Celastrina argiolus*, bred, Dorking, Surrey, 13.ix.92, R. Crouthers. 5: *Polyommatus icarus*, male ab. *extrema*, high temperature shock as pupa, N. B. Potter. 6: *Lysandra coridon*, melanic mosaic, Dorset, 1992, G. D. Trebilcock. 7: *Argynnis aglaja*, Lulworth, Dorset, vii.92, B. Fensome. 8: *Eurodryas aurinia*, ab. *sebaldus*, infra-red and cold-shock, K. E. J. Bailey. 9: *Anthocharis cardamines*, mixed gynandromorph, Derbyshire, 29.iv.92, B. Elliott. 10: *Colias australis*, Langen am Arlberg, Austria, 18.viii.52, B. K. West. 11: *Colotis ione*, gynandromorph, Wyliespoort, N. Transvaal, 9.vi.56, B. K. West. 12: *Nothochrysa fulviceps*, Nagyoldal, Hungary, 28.viii.81, C. W. Plant.

Photo: D. E. Wilson

BARRINGTON, R. D. G.—*Eurodryas aurinia* Rott. a male ab. *virgata* Tutt bred in the F₂ from an original wild-caught male which was paired with a 'normal' female. It is a multifactorial form with a weakening effect (a number of the F₂ generation were unable to climb to expand their wings, and none would pair). A male with dark red markings, and a bred female ab. *praeclara* Kane with vivid and contrasting markings. *Coenonympha pamphilus* L. abs *obliquajuncta* Leeds and *caeca* Ober (three examples were taken in one locality in June 1992). *Pyronia tithonus* L. from the hedges in Dorset where they had an exceptional year in 1992, included a pair of ab. *crassipuncta* Leeds, a dark male ab. *obscurior* Schultz and a creamy-yellow female ab. *subalbida* Verity. From a North Dorset hay meadow, *Maniola jurtina* L. female abs *antiauirolancea* Leeds, *postmultifidus* Lipscomb, *pallidula* Leeds and a mixed gynandromorph having the right side male, the left forewing female and the left hindwing mixed. *Lysandra coridon* Poda male aberrations, ab. *discreta-postcaeca* B. & L. and *parallela-postcaeca* B. & L. and females ab. *confluens* B. & L. and *dextriformis* Leeds. A male *Pararge aegeria* L. ab. *saturator* Cromb. and a male *M. jurtina* ab. *excessa* Leeds with two extra spots on each forewing and five on each hindwing, bred in the F₁ from a wild-caught female ab. *addenda* Mosley.

BUTTON, S.—A selection of *Lysandra coridon* Poda aberrations selected from 5000 insects examined in the field in Wiltshire and Dorset in 1992. Amongst various minor forms were a good gynandromorph having three wings male and one hindwing female with a streak of male coloration. Several ab. *striata* B. & L. of both sexes were shown, with inwardly streaking forewing spots and an example of the much rarer corresponding hindwing form ab. *postdiscoelongata* B. & L. A male with a very pale underside.

CALLOW, M.—A mixed gynandromorph of *Anthocharis cardamines* L. with orange blotching on both forewings, bred from wild-collected ova, Surrey 1992. An interesting breeding experiment from an original *Aricia agestis* D. & S. female having enlarged and outwardly displaced spotting. The F₁ was type and the F₂ of 99 insects contained only normal males and 20% female aberrations. The F₃ again produced only female aberrations. The stock has been inbred to the F₆ which was produced by pairing only aberrations from the F₅ (male aberrations appearing in the F₄ generation onwards) and contained 100% aberrations. Some of these were well developed with all spotting pushed up to the marginal lunules and the ground-colour very dark (Plate II, Fig. 3). It would seem that this is a recessive form more easily expressed in the female.

COLLINS, G.—A good male *Argynnis paphia* L. ab. *confluens* Spuler (Surrey, 18.vii.92) and a female f. *valezina* Esp. from Wiltshire. *Hipparchia semele* L. male ab. *monocellata* Lempke (Dorset 30.vii.92), a strong *Aglais urticae* L. ab. *semiichneusoides* Pronin, ab. *obsoleta* B. & L. forms of *Lysandra coridon* Poda and *Cupido minimus* Fuessly ab. *caeca* Courv.

EDMUNDS, H. A.—A very suffused *Argynnis aglaja* L. ssp. *scotica* Watkins from Mull, a series of the brightly marked *Maniola jurtina* L. ssp. *splendida* White from Jura, Iona and Mull. *Aphantopus hyperantus* L. from Jura. These were a little paler than the southern form and bore a resemblance to the Irish race. *Coenonympha tullia* L. ssp. *scotica* Staud. from Mull and Skye, and *Erebia aethiops* Esp. from Mull and the Cairngorms.

ELLIOT, B.—A mixed gynandromorph of *Anthocharis cardamines* L. affecting both sides, Derby 1992 (Plate II, Fig. 9).

ELSTON, MAJOR H. J.—*Coenonympha tullia* Müller, O. F. ssp. *scotica* Staud. from Skye, which were unusually heavily marked for this location. A male *Maniola jurtina* L. ssp. *splendida* White also from Skye. A pair of *Erebia epiphron* Knoch from Cumbria

taken during the only five minutes of sun on a very wet and windy day. *Plebejus argus* L. spp. *caernensis* Thompson and *Hipparchia semele* L. spp. *thyone* Thompson from Great Orme, Wales. *Lysandra coridon* Poda a female ab. *anticaeca* B. & L. and an upperside female with blue developing on the hindwings.

FENSOME, B.—A totally 'blind' female *Hipparchia semele* L. ab. *holonops* Brouwer, a form very rarely seen in the female. An attractive confluent aberration of *Argynnis aglaja* L. from Lulworth, Dorset, 1992, affecting mainly the outer markings (Plate II, Fig. 7). A watercolour painting of both surfaces of this insect, executed by the exhibitor, was also shown. Two unusual male aberrations of *Lycaena phlaeas* L. had the forewing spots small and inwardly streaked on both surfaces, and a male ab. *obsoleta* Tutt. A curious male *Gonepteryx rhamni* L. having the centres of all wings of the female coloration. Temperature-induced melanic forms of *Polygonia c-album* L., *Aglais urticae* L. and *Inachis io* L.

HARMER, A. S.—A gynandromorph of *Polyommatus icarus* Rott. from Orkney, being a basically female insect with a streak of male coloration at the apex of the left forewing.

JONES, A. M.—(1) A fine melanic *Argynnis paphia* L. ab. *nigricans* Cosmovici. Two bred homoeotic butterflies: a female *Thecla betulae* L. with a large patch of forewing underside reproduced on the underside of the left hindwing, and a male *Anthocharis cardamines* L. with a patch of apical orange on the underside of the left hindwing. A bred gynandromorph of *Quercusia quercus* L. with the left side mainly female but with two spots of male coloration in the border, and the right side a mosaic of both sexes. A good *Aglais urticae* L. ab. *semiichneusoides* Pronin (wild-caught 27.vi.92) with totally black hindwings and no lunules, and a strong example of ab. *pseudoconnexa* Cab. A striking female albino of *Pyronia tithonus* L. ab. *albinotica* Goodson, taken from bramble, in which the fulvous markings are unchanged but all darker coloration is replaced by soft grey.

(2) Continued results of breeding from a lightly-marked *Boloria selene* D. & S. The original male (captured 28.vi.91) had the central markings on all wings reduced. It was paired with a typical female. The F₁ of 34 type insects emerged in July and August 1991 and the F₂ emerged in Sept/Oct 1991. This contained 16.5% aberrations. F₃ and F₄ generations bred only from aberrant parents produced 100% aberrations. Some of these were extreme forms with very reduced and obsolete dark markings (Plate II, Fig. 2). This would appear to be a recessive form. It resembles ab. *obsoleta* Curtis, but seems to be a different form as *obsoleta* entirely lacks many black markings, whereas, while the present form may lack some, others are often present, but ghostly. These aberrations are similar to those bred by K. E. J. Bailey in 1984 from larvae fed on violet sprayed with dimethyltyrosine solution (which inhibits the formation of melanin). These were exhibited at the 1986 annual exhibition. Some F₄ insects from this stock have been outcrossed with type and the stock is being maintained.

KNILL-JONES, S. A.—A male example of the very rare *Polyommatus icarus* Rott. ab. *transparens* Tutt from Tennyson Down, Isle of Wight, 29.viii.92.

MACKENZIE-REID, I.—*Colias croceus* Geoff. (Cornwall 22.vii.92) which was paler than typical and had one small hindwing.

MACNULTY, B. J.—Butterflies from the Gower Peninsula, shown as part of an ongoing survey to cover all the Lepidoptera of the area. This included the 'skippers': *Thymelicus sylvestris* Poda, *Ochlodes venata* Br. & Grey, *Erynnis tages* L. and *Pyrgus malvae* L., and the lycaenids: *Quercusia quercus* L., *Satyrrium* (formerly *Strymonidia*) *w-album* Knoch, *Callophrys rubi* L., *Lycaena phlaeas* L., *Cupido minimus* Fuessly, *Aricia agestis* D. & S., *Polyommatus icarus* Rott. and *Celastrina argiolus* L.

PATEMAN, J. AND CROUTHERS, R.—A very dark male *Celastrina argiolus* L. (Plate II, Fig. 4), one of two bred. *Pyrgus malvae* L. with dark ground-colour on the underside, some strongly marked *Pyronia tithonus* L. ab. *excessa* Leeds forms of both sexes, and some good examples of *Polyommatus icarus* Rott. ab. *discoelongata* B. & L. bred in the F₂ with the hindwing spotting also affected.

PAYNE, J. H.—Extreme forms of *Aglaia urticae* L. and *Polygonia c-album* L. from temperature-shocked pupae. A male albino *Anthocharis cardamines* L. ab. *lasthenia* Mill. having the dark markings replaced by pale grey (Plate II, Fig. 1). This was bred by P. Batty in March 1992. A bred *Vanessa atalanta* L. with pale pathological streaks.

PICKLES, A. J. AND C. T.—A butterfly believed to be of the American genus *Eurema* ('sulphurs') found flying at Cradley Heath, W. Midlands at 2.30 pm on 6.vi.92 by Rex Harvey. Although probably a local release, enquiry has yet to establish the source.

PORTER, J.—A series of the single-brooded *Polyommatus icarus* Rott. from Scotland compared with the English form. The Scottish specimens were a little larger and brighter. A selection of aberrations taken in past years and in 1992. This included *Inachis io* L. ab. *belisaria* Ober. with blank hindwing eyespots, *Polygonia c-album* L. ab. *suffusa* Tutt, an *Apatura iris* L. resembling *A. ilia* L. due to extra orange scaling on the upperside of the hindwings, a mixed gynandromorph of *Gonepteryx rhamni* L. A rare form of *Argynnis aglaja* L. was ab. *albescens* Verity with creamy ground-colour. A fine male *Eurodryas aurinia* Rott. ab. *melanoleuca* Cab. taken some years ago on Hod Hill was typical of the recurrent forms that used to occur in that locality before mismanagement reduced the colony. A pale *Coenonympha pamphilus* L. ab. *aurea* Leeds, *Hipparchia semele* L. with pale yellow bands, *Cupido minimus* Fuessly approaching ab. *caeca* Courv. and *Coenonympha tullia* Müller, O. F. ssp. *scotica* Staud ab. *obsoleta* Tutt.

REID, J.—*Lysandra bellargus* Rott. ab. *krodeli* Gillmer.

REVELS, R. C.—(1) A halved gynandromorph of *Celastrina argiolus* L. of the spring brood. The exhibitor collected larvae of four successive broods to record changing percentages of parasites, from summer 1990 to spring 1992. From these broods, the percentage of parasited larvae was 7.7%, 64.8%, 66.8% and 99%. No larvae could be found at all for the summer 1992 brood. A classic picture of how parasites affect the well known cyclical fluctuations of this species.

A good male *Polyommatus icarus* Rott. ab. *alba-radiata* B. & L., captured wild in Beds., 1992, which was paired with two captive females. A male *Lycaena phlaeas* L. ab. *fuscae* Robson with very pale ground-colour, Beds., 1992, a *Pyronia tithonus* L. male ab. *pallidula* Leeds, Beds., 1992 and a male *L. phlaeas* L. with very heavy forewing borders bred in a summer brood of 100 normal insects.

(2) An F₁ brood from an unnamed aberration of *Pyronia tithonus* L. lacking the fulvous on the upperside of the hindwings (and the pale central band on the underside) and with heavy borders on both surfaces of the forewings (an example captured by B. Fensome in the same place was illustrated *Proc. Trans. Br. Ent. Nat. Hist. Soc.* 18: pl.1). The brood consisted of 13 normal and 12 aberrations suggesting that this is a dominant form of which the parent was a heterozygote. Some of these aberrations were quite striking with deep brown-black hindwings. Survival in the F₂ larvae was reported as poor at the time of the exhibition.

TREBILCOCK, G. D.—The highlight of this exhibit of aberrations was one of the most remarkable forms of *Lysandra coridon* Poda to have been seen for many years (Plate II, Fig. 6). The righthand side was extreme black ab. *plumbescens* Tutt with the normal black margins barely visible on the hindwings, and the left side was a mixture of *plumbescens* and type coloration, so that superficially it resembled a gynandromorph. The underside was affected in much the same way. Other aberrations

included a strong female ab. *arcuata* Courv., a female *costajuncta* B. & L. and a male *antidiscoelongata-postcaeca* B. & L., two female *Hamearis lucina* L. ab. *gracilens* Derenne with reduced black markings, *Plebejus argus* L. ssp. *caernensis* Thompson, a strong *Pyronia tithonus* L. ab. *excessa* L. (Devon), *Maniola jurtina* L. showing homoeosis with a large splash of fulvous on the underside of the left hindwing and a possible bred gynandromorph of *Melitaea cinxia* L.

TUBBS, R. S.—Three drawers showing the results of the exhibitor's many years of breeding aberrations of *Lysandra coridon* Poda, beautifully laid out to illustrate the genetics of the various forms. Included were the blue female forms *tithonus* Meiger and *semisyngrapha* Tutt (both sex-linked recessives, but they are not connected forms), and *fowleri* South (a recessive). The latter was shown in combination with both the blue forms. These double varieties must be amongst the most lovely aberrations of British butterflies.

YOUNG, L. D.—Continued results of breeding *Polyommatus icarus* Rott. abs *discoelongata* B. & L. and *basielongata* B. & L. Some strong ab. *antiradiata* Courv. were shown, some also having good development of the *basielongata* characteristic. The hindwing spots were beginning to extend on a few specimens. The exhibitor is working on developing the hindwings to *radiata* in his breeding experiments, but hindwing spotting seems much more resistant to variation than that of the forewings. Seven insects were shown which were bred by Dr N. B. Potter from stock given by L. D. Young from the above strain. The pupating larvae were accidentally left in a closed greenhouse for several days during a hot spell in September 1991. The resulting adults included three ab. *extrema* B. & L., one (Plate II, Fig. 5) being about as far streaked as spot development can go, extending along all the interneural spaces (and so being similar to the 'Montgomery *striata*', thought to be the most developed form of *Lysandra coridon* Poda ab. *extrema* B. & L. on record: illustrated in *A monograph of the British aberrations of the chalk-hill blue butterfly* by Bright and Leeds). This interesting accident suggests that, like these bred insects, the excessively rare wild examples of *extrema* in *L. coridon* might also be produced by temperature acting on a pupa that would already have produced *radiata*.

BRITISH MACROLEPIDOPTERA

AGASSIZ, D. J.—*Eupithecia sinuosaria* Evers. taken by B. Slade at Berrow, Som., 13.vi.92, believed to be the first British specimen recorded; *Nola confusalis* H.-S. ab. from Redlynch, Wilts., i.vi.92 and *Eublemma ostrina* Hübn. first record for Essex, from Takeley, 25.viii.92.

BAKER, B. R.—Migrants 1992: *Mythimna loreyi* Dup. from Shaldon, Devon, 18.ix and East Prawle, Devon. 18–22.ix and *Heliothis armigera* Hübn. from there, 19.ix. Aberrations from Reading: *Biston betularia* L. with black forewings and white hindwings, 2.vi.82; *Melanchra persicariae* L. with extended reniform stigma, 9.vi.57 and a suffused *Hecatera bicolorata* Hufn., 3.viii.78. Also a melanic *Protodeltote pygarga* Hufn. from Pamber Forest, Hants, 7.vi.65.

BLAND, K.—*Anarta melanopa* Thunb. from Beinn Bham, West Ross (v.c. 105) at alt. 2000', 27.v.92, and a request for records for West Ross, for which there are no recent ones.

CLANCY, S.—From Dungeness, 1992: *Thaumetopoea processionea* L., three male specimens, a species noted only once before in the British Isles; *Lymantria dispar* L. from Greatstone, 25.viii; two *Polia bombycina* Hufn. of the grey Continental form (also seen in 1989), *Mythimna loreyi* Dup., *Photedes elymi* Treit., the first specimens from Kent, an obsolete ab. of *Luperina testacea* D. & S. and *Eublemma ostrina*

Hübner. From Ashford, Kent, *Macdunnoughia confusa* Steph. 31.viii.92; a series of *Hylaea fasciaria* L. bred from a female taken at Lydd, Kent, 31.viii.92; *Hyles lineata livornica* Esp. from Dungeness, 25.v.92 and a female *Orthosia cruda* D. & S. having a black costal streak on the forewing, Hamstreet, Kent, 10.iv.92 (Plate III, Fig. 12).

CLARKE DR J.—Sesiidae bred in 1992: *Synanthedon andrenaeformis* Lasp., *S. culiciformis* L. from coppiced birch, including ab. *flavocingulata* Spuler and *S. tipuliformis* Cl., and stems illustrating larval workings for each species. Bred or taken in 1992: *Zygaena purpuralis* Brunn. and *Z. loti* D. & S. from Mull; *Hyles lineata* F. Swanage, 26.v; *Semiothisa brunneata* Thunb., Lingfield, Surrey, *Thera cupressata* Geyer from St Lawrence, I.O.W., *Miltochrista miniata* Forst. ab. *flava* Bigneau, Ashted, Surrey, 28.vi and examples of summer and autumn broods of *Hypena obsitalis* Hübner. from Torbay, Devon.

CLASSEY, E. W.—From Uffington, Oxon., 1992: *Heliothis armigera* Hübner. 3.viii, *Mythimna vitellina* Hübner. 28.viii and 1.ix, and *Rhodometra sacraria* L. 22.v, 18.ix and 2.x.

COLENUTT, S.—Two *Mythimna loreyi* Dup. 25.v and 9.viii.92, *Earias clorana* L. 29.vi.92, *Eublemma ostrina* Hübner. 21.v.92, *Orthonama obstipata* F. 26.vi.92, *Hydriomena ruberata* Freyer 24.v.92, *Thera cupressata* Geyer 28.xi.91 and a melanic *Timandra griseata* Peters 31.vi.92, all from Chale Green, I.O.W.

COLLINS, G.—A female *Trigonophora flammea* Esp. Swanage, 12.x.91, and specimens bred from it.

COOK, R.—*Zygaena trifolii decreta* Verity ab. *lutescens* Cockerell from Bodmin, Corn., 6.vii.92, *Z. loti* D. & S. and *Z. purpuralis* Brunn. from Mull, vi.92. *Agrotis ripae* Hübner. bred from larvae, St Cyrus, Aberdeen; dark *Spilosoma lubricipeda* L. from Mull, vi.92; bred *Trichoplusia ni* Hübner., Portland, viii.92; *Dicycla oo* L. including ab. *renago* Haw., Ashford, Surrey and a bred series of *Mythimna loreyi* Dup. from a female taken at Wimborne, Dorset, 18.viii.92.

CRONIN, A. R.—A selection of moths bred or caught in 1992 which included a female *Ennomos autumnaria* Wern.

DAVEY, P.—Probable immigrants to Dorset in 1992 included: *Cyclophora puppillaria* Hübner., Durlston, 8.viii; *Hyles lineata* F. *livornica* Esp., St Aldhelm's Head, 23.v; *Mythimna loreyi* Dup., Gaunt's Common, 18.viii, and a series bred from this specimen; *Eublemma ostrina* Hübner. from St Aldhelm's Head, 27.v; *Macdunnoughia confusa* Steph., Gaunts Common, 28.viii and *Trichoplusia ni* Hübner. from St Aldhelm's Head, 7.viii.

ELLIOTT, B.—Obtained in 1992: *Trichoplusia ni* Hübner. bred from a larva found on *Hieracium*, Burren, Co. Clare; *Hadena luteago barrettii* Doubl. from pupae, S. Devon; *Parasemia plantaginis* L. from ova from Rannoch Moor and *Hemaris tityus* L. bred from larvae, Co. Kerry. Also a fine ab. *albescens* Cockerell of *Opisthagraptis luteolata* L., one of two seen at Leigh South, Co. Galway; *Ematurga atomaria* L. ab. *unicolaria* Staud. from W. Yorks. and an extreme form of *Aspitates ochrearia* Rossi from Dungeness, 1990 (Plate III, Fig. 7).

ELSTON, MAJOR H.—Included were series of *Zygaena purpuralis* Brunn. and bred specimens of *Z. lonicerae jocelynae* Trem. from the Isle of Skye, 1992; also bred specimens of *Euproctis chrysorrhoea* L. from Fulham, London, where larvae were common in 1992.

EMMET, A. M.—Immigrants in 1992 to Saffron Walden, Essex: *Hyles lineata livornica* Esp. 9.viii and *Mythimna vitellina* Hübner. 25.ix. Species new to N.W. Essex were *Ennomos quercinaria* Hufn. (rare in Essex), *Eumichtis lichenea* Hübner., normally coastal in Essex and a bred series of *Eupithecia millefoliata* Rössl. from Suffolk, previously not recorded from Suffolk.

GILL, N.—From the Shetland Islands, July 1992, *Hepialus humuli thulensis* Newman, *Apamea zeta marmorata* Zett., *Diarsia mendica thulei* Staud., *Campogramma bilineata atlantica* Staud., *Xanthorhoe munitata hethlandica* Prout and *Perizoma albulata subfasciaria* Boh.

HALL, N.—From Hastings, Sussex, 1992, *Minucia lunaris* D. & S. at sugar, 24.v, *Noctua pronuba* L. a dark ab. with almost obsolete stigmata, 24.vii, *Tetheella fluctuosa* Hübn. ab. *unicolor* Lempke 24 and 25.vii, *Acronycta alni* L. ab. *suffusa* Tutt 24.v and *Euphyia bangulata* Haw. 25.v and 31.vii. Also *Actebia praecox* L. 24.vii and *Eilema pygmaeola* Doubl. 31.vii, unlikely to be of local origin, although they occur 10 to 20 miles away.

HARBOTTLE, A.—A gynandrous *Lasiocampa quercus* L. (Plate III, Fig. 5) bred from a female taken Eastbourne, 10.viii.91, emerged 17.viii.92, appearing to be male, but body female which laid two colourless eggs which soon collapsed.

HARMAN, T.—Specimens obtained in 1992: *Semiothisa signaria* Hübn. from Dover, 1.vi (two) and Kingsgate, Kent 29.v; *Abrostola trigemina* Wern. from Kent, 25.viii and 26.ix; *Mythimna loreyi* Dup. from Bucks. 8.viii and *Heliothis armigera* Hübn., Kent, 19.ix and 18.x.

HAYWARD, R.—From Slough, Bucks., in 1992 a bred series of *Idaea emarginata* L.; *Mythimna vitellina* Hübn. 18.ix; bred *Polymixis flavicincta* D. & S.; an unusually dark *Cryphia domestica* Hufn. and a fine ab. of *Charanyca trigrammica* Hufn. 5.vi (Plate III, Fig. 1).

HENWOOD, B.—A larva of *Mythimna loreyi* Dup. from a female taken at Abbotskerswell, Devon, 1992; also from there *M. vitellina* Hübn., *Orthonama obstopata* F. and *Idaea vulpinaria* H.-S. in 1992.

HIPPERSON, D.—*Zygaena trifolii decreta* Verity from two marshy heathland sites near the Norfolk coast (identity of moths confirmed by W. Tremewan). A specimen of *Minucia lunaris* D. & S. from East Winch Common, Norf., 30.v.92 and *Eublemma ostrina* Hübn. from Bishop's Waltham, Hants, 8.viii.92.

HOARE, R.—*Eublemma ostrina* Hübn. from larvae found on basal rosettes, stems and seed heads of *Carlina vulgaris* at Brea Hill, Rock, Corn., 8.vii.92, moths emerging 1–5.viii.92, these thought to be the first *E. ostrina* larvae to be found in the British Isles.

KOLAJ, A.—A selection of migrant species taken during 1992 including the tenth British record for *Ctenoplusia limbirena* Guen. from Swanage, Dorset, 7.ix., also a female *Crocallis elinguaris* L. having the marginal area of the forewing rayed with blackish-brown (Plate III, Fig. 18).

JENKINS, A.—The exhibit included *Perconia strigillaria* Hübn. from Thursley Common, showing variation; two *Hyles lineata livornica* Esp. from Chardstock, Devon, 14.v.92 and the Lizard 19.viii.92; *Heliothis virespallata* Hufn. from Lakenheath; a bred series of *Scopula nigropunctata* Hufn. from Folkestone, July 92; *Mythimna loreyi* Dup. from the Lizard, 19.viii.92 when over a hundred were seen; *Bupalus piniaria* L., Richmond Park 6.vi.92 showing variation and *Aspitates ochrearia* Rossi from Lakenheath showing variation.

KNILL-JONES, S.—A comprehensive exhibit of moths taken mainly at Freshwater, I.o.W. in 1991 and 1992. In 1992 of especial note were *Earias insulana* Boisd., fourth British record, and the first for the I.o.W., 26.vi. Other interesting specimens were *Eilema caniola* 20.ix also new for the I.o.W.; *Lacanobia oleracea* L. ab. dark brown with white hindwings, 29.viii; *Elaphria venustula* Hübn. 13.vi, new to the I.o.W.; *Conistra ligula* Esp. ab. with white margin, 6.ii; *Drymonia ruficornis* Hufn. ab. with pure white central band, 18.iv and *Rhodometra sacraria* L. 11.viii and another specimen from Newtown, I.o.W. and *Eublemma ostrina* Hübn. f. *carthami* H.-S. 26.viii. Also a bred series of *Cyclophora linearia* Hübn. showing variation, moths

emerging December 91 to January 92; *Mythimna unipuncta* Haw. 27.xii.91, a very late date and *M. l-album* L. ab. lacking the l-mark, 23.xi.91.

LANGMAID, DR J.—*Euplagia quadripunctaria* Poda ab. *lutescens* Staud. from Portland, 8.viii.92; *Malacosoma neustria* L. ab. with reduced median fascia, Southsea, Hants, 8.vii.92 and *Calophasia lunula* Hufn. from Southsea, 11.viii.92, the second Hampshire record.

LOWE, DR N.—Moths from Breconshire included *Scopula ternata* Schr., *Euphyia biangulata* Haw., *Eupithecia inturbata* Hübn., *E. dodoneata* Guen., *Archanara dissoluta* Treits., *Chilodes maritimus* Tausch. and *Syngrapha interrogationis* L.

MCCORMICK, R. AND PENNEY, C.—A comprehensive exhibit which included: *Cossus cossus* L., Stonelees, Kent; *Adscita statices* L. from Odiham, Hants; *Sesia bembeciformis* Hübn., Blindley Heath, Surrey; *Catarhoe rubidata* D. & S. from Ham Fen and Stonelees, Kent; *Eupithecia phoeniceata* Ramb. from Pagham, Sussex; *Eilema sericea* Gregs. from Dinas, near Harlech; *Hadena caesia* D. & S. from Ardnamurchan Point, Inv.; *Philudoria potatoria* L. ab. *bicolor* Lempke from Stonelees (Plate III, Fig. 16); *Lampropteryx otregata* Metc. having the dark central band of the forewing accentuated by whiter-than-normal outer lines, from Dinas, Gwynedd, 5.viii.92 (Plate III, Fig. 4); a very pale form of *Lomaspilis marginata* L. from Ham Fen; *Euproctis similis* Fuess. ab. *nyctea* Staud. from Hendre, Gwynedd, and *Lacanobia oleracea* L. ab. with elongated brown eyes, Pagham, Sussex.

M McNULTY, DR B.—Moths from the Gower Peninsula included: *Stauropus fagi* L., *Hemaris fuciformis* L., *Deilephila porcellus* L., *Mimas tiliae* L., *Sphinx ligustri* L., *Acherontia atropos* L. and *Agrius convolvuli* L.

NASH, S.—From Fernham, Oxon. in 1992: *Trichoplusia ni* Hübn. 19.viii.; *Eublemma ostrina* Hübn. 21.viii.; *Mythimna loreyi* Dup. 16 and 26.ix; *M. vitellina* Hübn. 26.viii–2.ix (15); *Agrius convolvuli* L. 28.viii; *Rhodometra sacraria* L. 22.v–29.ix (8), and a melanic *Hada nana* Hufn. 20.vi.

PARKER, M. J.—A specimen of *Euplagia quadripunctaria* Poda from Burton Bradstock, Dorset, 31.vii.92, one of several encountered in the area suggesting the existence of a Dorset colony.

PARSONS, M.—Two *Chrysodeixis chalcites* Esp. from Littlehampton, W. Sussex, 14.x.91, and examples of a bred first generation. *Eilema pygmaeola pallifrons* Zell. bred from larvae from under stones and other debris, Dungeness, June 92; *Senta flammea* Curt., Ninfield, E. Sussex, and two abs of *Arctia villica* L. (Plate III, Fig. 17) and a pale *A. caja* L., all from Dungeness.

PHILLIPS, J. W.—Specimens included *Hadena luteago barrettii* Doubl. from Slapton Sands, Devon, 1991/2; *Sideridis albicolon* Hübn. and *Agrotis ripae* Hübn. from Hayling Island, Hants; *Lycia zonaria* D. & S. bred from larvae, Iona, 1991/2; *Zygaena purpuralis* Brün. and *Z. loniceræ jocelynae* Trem. from Skye, 1992; *Z. filipendulae stephensi* Dup. from Hayling Island and Skye, and an *Agrotis exclamationis* L. ab. lacking forewing markings, Havant, Hants, 1988.

PICKLES, A. J. AND C. T.—*Acherontia atropos* L., Lymington, Hants, 14.ix.92; *Hadena luteago barrettii* Doubl. bred from *Silene maritima* roots, Guernsey, and some Cornish specimens; *Agrotis ripae* Hübn. bred from a larva taken in Guernsey, 1991; *Calliteara pudibunda* L. ab. *obscura* Lempke and *Hydrelia flammeolaria* Hufn. ab. *confluens* Hoffman from Winchester; *Diarsia mendica orkneyensis* Byt.-Salz and *Xanthorhoe munitata* Hübn. from Orkney, and *Hypena obsitalis* Hübn. from larvae found on pellitory of the wall, S. Devon, August.

REID, J.—Specimens of *Mythimna vitellina* Hübn., *M. albipuncta* D. & S., *Rhodometra sacraria* L. and *Luperina dumerilii* Dup.

RILEY, A. AND TOWNSEND, M.—A large exhibit of aberrations and rarities, mainly

from the Rothamsted insect survey. It included from Harpenden, *Semiothisa signaria* Hübn., *Euphyia unangulata* Haw. and *Eupithecia sinuosaria* Evers. 21.vi.92 (Plate III, Fig. 3). Also several abs of *Idaea aversata* L. from various localities, *E. phoeniceata* Ramb. ab. from St Martins, Guernsey, 21.viii.90, *E. abietaria* Goeze ab. from larvae, Hamsterley Forest, Northumb., emerged May 1988, *Spargania luctuata* D. & S. melanic ab. from Warehorne, Kent, 4.viii.90 (Plate III, Fig. 14), *Lomospilis marginata* L. asymmetrical ab. from Keilder, Northumberland, 26.vi.88 (Plate III, Fig. 15), *Coenocalpe lapidata* Hübn. ab. Lairg, Sutherland, 27.ix.90, *E. ultimaria* Boisd. from Bishop's Stortford, Herts. 20.vi.89, *Costaconvexa polygraminata* Borkh. from Trinity, Jersey, 25-28.viii.84 and an extreme melanic *Peridea anceps* Goeze, Rowardennan, Stirling, 25.v.90.

ROUSE, T.—Several *Rhometra sacraria* L. from Dungeness, September 1992, *Cyclophora puppillaria* Hübn., Densole, Kent, 27.ix.92, and larvae of this species being reared on *Myrtus communis*.

SCANES, J. S.—From Caister, Norfolk: *Photodes elymi* Treits., *Mythimna litoralis* Curt. and *Agrotis vestigialis* Hufn. 19-24.vii.92. From the Wye Valley *Euphyia biangulata* Haw. From Caswell Bay, Gower Peninsula, 7 and 8.viii.92 *Trichoplusia ni* Hübn., *Autographa gamma* L. ab. *nigricans* Spuler, *M. vitellina* Hübn. and *Heliothis armigera* Hübn., also *Hyles lineata livornica* Esp. Winchester, 23.v.92.

SIMMONS, M.—From Crowborough, Sussex, in 1992, *Heliothis peltigera* D. & S. 25.v and 29.ix, *Mythimna vitellina* Hübn. 18.ix and 28.ix, *Spodoptera exigua* Hübn. 15.v and 23.vii and a pale form of *Acronicta rumicis* L., *Calophasia lunula* Hufn. 24.v and 2.viii, migrants from the Sussex coast or Continent, or locally bred, although yellow toadflax has not been noted. Also *Trichoplusia ni* Hübn. from Pevensay, E. Sussex, 23.vii.92.

SIMSON, BRIG. E. C.—Two series of *Ennomos erosaria* D. & S. to compare those taken 1 to 26.vii and between 13.viii and 9.ix, the latter being darker. Also four *Trigonophora flammea* Esp. bred from eggs, and series of *Eupithecia denotata* Hübn. and ssp. *fajoneata* Crewe, to illustrate differences.

SKINNER, B.—Specimens of *Eublemma ostrina* Hübn. and the fourth British record for *Heliothis nubigera* H.-S. (Plate III, Fig. 8) from Swanage, Dorset, 14.v.92. Four *Hyles lineata livornica* Esp., v.92, also from Swanage. *Eilema griseola* Hübn. ab. with outer part of forewing normal and inner part straw coloured as in ab. *stramineola* Doubl. On behalf of W. Kittle the third *Earias insulana* Boisd. (Plate III, Fig. 9) for the British Isles, from St Austell, Corn. 13.vi.92. With B. Elliott a bred series of *Eublemma ostrina* Hübn., including an extreme example of f. *carthami* H.-S. (Plate III, Fig. 10), Burren, Co. Clare and Inisheer, Aran Islands, Co. Galway, from carline thistle flower heads in August, 1992, and photographs.

STERLING, COL. D. H., DR P. AND M. J.—*Zygaena exulans* Hohen., Aberdeenshire, vii.92; bred second generation *Scopula nigropunctata* Hufn. from a female taken at Folkestone, vii.92; *Pareulype berberata* D. & S. from Hampshire larvae off *Berberis vulgaris* L., and a photograph of the locality; *Mimas tiliae* ab. *obsoleta* Clark, Winchester, 11.vi.92; *Hyles gallii* Rott. from East Stratton, near Winchester, 8/9.vi.92; *Mythimna loreyi* Dup., 27/28.viii.92 and *Trichoplusia ni* Hübn. 28/29.vii and 31.vii/1.viii.92, all from Winchester.

TREMEWAN, W.—From Truro, Corn., *Lithophane leauteri hesperica* Boursin, 19.x.92, a new locality record. *Xanthorhoe fluctuata* L. ab. *costovata* Haw. a rare ab. in which the median band of forewing is absent.

WARING, DR P.—Interesting records from the Peterborough area in 1992: *Eilema sororcula* Hufn. from Castor Hanglands, Northants. 29.v, the first recent record; *Tyta luctuosa* D. & S. 23.v-30.vii; *Xylota vetusta* Hübn., Castor Hanglands, 28.ii; *Heliothis*

viriplaca Hufn. at actinic light, Peterborough, 29.vi; *Synanthedon myopaeformis* Borkh. from Peterborough, 2.viii; *Hyles lineata livornica* Esp. Castor Hanglands, 22.v. Also *Paraleupe berberata* D. & S. from Kidlington, Oxon. 23/24.vi.79.

WEDD, D.—A comprehensive and interesting exhibit which included from W. Ireland *Calamia tridens* Hufn. which was very common in the Burren in 1992; *Archanara algae* Esp. from coastal Loch Baile Ui Mhaelachain and Loch Baile Iochtair; *A. geminipuncta* Haw., perhaps the second Irish record; *Heliothis peltigera* D. & S. bred from larvae on *Calendula* at Kilnaboy, Co. Clare and Limerick; *Eublemma ostrina* Hübn., *Gnophos obfuscatus* D. & S., *Aporophyla lutulenta luenebergensis* Frey., *Schranksia costaeirigalis* Steph. and bred *Eriogaster lanestris* L. from the Burren. From the Marlow area of Bucks., three generations in one year of bred *Parascotia fuliginaria* L. *Xanthorhoe biriviata* Borkh. and *Photodes fluxa* Hübn. from Stonor, *Eupithecia denotata* Hübn. from larvae off ornamental *Campanula* in Marlow, *Cucullia lychnitis* Ramb., *Simyra albovenosa* Goeze, second record for the area, *Mythimna unipuncta* Haw., *M. obsoleta* Hübn., *Agrotis vestigialis* Hufn. from Marlow Common, new for the area, and *Autographa bractea* D. & S. from Marlow.

YOUNG, D.—In 1992 *Dicycla oo* L., Burghfield Common, Berks., 26.vi; *Agrotis ripae* Hübn. from Hayling Island, 31.v; *Heliothis armigera* Hübn., Burghfield Common, 6.viii; bred *Lycia zonaria* D. & S. from Iona; *Zygaena purpuralis* Brün. from Skye; *Z. exulans* Hohen. from Braemar; *Z. loniceræ jocelynae* Trem. from Skye and bred *Ennomos autumnaria* Wern. from a female at Dungeness, 21.ix.91.

BRITISH MICROLEPIDOPTERA

AGASSIZ, CANON D. J. L.—*Tebenna micalis* Mann, three bred from *Pulicaria*, Gower, S. Wales, larvae taken 19–20.viii.92.

BAKER, B. R.—The following taken or bred from Berkshire v.c.22 in 1992. *Bucculatrix thoracella* Thunb. Forbury Gardens, Reading, 4.viii.92, imagines common on trunks of *Tilia* × *vulgaris* Hayne. *Phyllonorycter comparella* Dup. Moor Cope N.R., mines on *Populus* × *canescens* (Aiton) Smith, 10.ix.92, moths bred 22.ix.92; this confirms an observation of an empty mine on 15.viii.90 by J. Robbins and C. Bleazard. *Reuttia subocellea* Steph., The Holies, Streatley, larvae 12.i.92, moths bred 25.vi.92. *Acleris boscana* F. Ufton Park, pupa on *Ulmus glabra* Hudson, 1.x.91, moth emerged 6.x.91. *Homoeosoma sinuella* F., a specimen 'with suffused wings', Moor Cope N.R. 18.vi.92.

BEAUMONT, H. E.—*Biselachista albidella* (Nyl.), West Melton, S. Yorks., 16.vii.1992, first v.c.63 record. *Cosmiotes consortella* (Staint.), Wath Wood, S. Yorks., 10.viii.1990, first Yorkshire and v.c.63 record. *Argyresthia glaucinella* Zell., Wath Wood, S. Yorks., 26.vi.1992, a scarce or overlooked moth in Yorkshire, this is only the second record in forty years. *Ptycholomoides aeriferanus* (Herr.-Schäff.) Cottingham, Hull, E. Yorks., 8.vii.1992 (P. A. Crowther), first Yorkshire and v.c.61 record. *Lozotaeniodes formosanus* (Gey.), South Cave, E. Yorks., 25.vii.1992, (D. B. Cutts); Cottingham, E. Yorks., 27.vii.1992, (P. A. Crowther), first Yorkshire and v.c.61 record. *Eucosma lacteana* (Treits.), Spurn, E. Yorks., 17 & 20.vii.1991, (B. R. Spence), first Yorkshire and v.c.61 record. *Pammene aurantiana* (Staud.) Edlington Wood, S. Yorks., 9.viii.1991, first Yorkshire and v.c.63 record. *Scoparia ancipitella* (La Harpe), Edlington Wood, S. Yorks., 29.vi.1990, although there are old records from this and other Yorkshire localities this is the first Yorkshire record since 1920. *Ostrinia nubilalis* (Hübn.) Spurn, E. Yorks., 6.vii.1991 (B. R. Spence), first Yorkshire and v.c.61 record. *Phlyctaenia perlucidalis* (Hübn.), West Melton,

S. Yorks., 3.vii.1992, this moth has been recorded sparsely but regularly in Yorkshire (vice-counties 61 and 63) in recent years. *Endotricha flammealis* (D. & S.), Spurn, E. Yorks., 24.vii.1991 (B. R. Spence), first Yorkshire and v.c.61 record. Two further moths were recorded at Spurn in 1992. *Numonia suavella* (Zinck.), Spurn, E. Yorks., 29.vii.1992 (B. R. Spence), first Yorkshire and v.c.61 record. *Oxyptilus parvidactylus* (Haw.), South Cave, E. Yorks., 25.vi.1992, (D. B. Cutts), this record from v.c.61 reinstated this moth on the Yorkshire list, previously there was only a single unconfirmed record from Scarborough (v.c.62) in the middle of the nineteenth century. *Oxyptilus distans* (Zell.) Spurn, E. Yorks., 23.viii.1992 (B. R. Spence), first Yorkshire and v.c.61 record.

BLAND, DR K. P.—(1) Species new to the Outer Hebrides (v.c.100). *Stigmella salicis* Staint., a single vacated mine on *Salix aurita* L., Alioter (grid ref. NF8873), N. Uist, 18.vii.92. *Biselachista serricornis* Staint., one, Loch Iadaidh (grid ref. NF 8970), N. Uist, 17.vii.92. *B. eleochariella* Staint., Malaclete (grid ref. NF7973), N. Uist, 11.vii.92. *Pleurota bicostella* Clerck, Langass Burial Cairn (grid ref. NF8365), N. Uist, 16.vii.92. *Scrobipalpa artemisiella* Treits., many disturbed from thyme at Newton-ferry (grid ref. NF8978), N. Uist, 18.vii.92.

(2) Species new to Scotland. *Stigmella prunetorum* Staint., Near Lanark (grid ref. NS8644), Lanarkshire (v.c.77), vacated and occupied mines in blackthorn found by R. P. Knill-Jones and K. P. Bland, 5.ix.92; *S. prunetorum*?, vacated mines on hazel nearby.

(3) A second site in Scotland. *Phalonidia manniana* F.v.R. Morenish Meadows SSSI (grid ref. NN6035), Perthshire (v.c.88), moth emerged 30.v.92 from larvae in terminal shoots of *Mentha* sp. 27.vii.91; previously recorded from v.c.85.

(4) A second British specimen and resident status confirmed. *Callisto coffeella* Zett. Coire Fee (grid ref. NO2474), Glen Doll, Angus (v.c.90), moth emerged 14.v.92 from cocoon found on *Salix* twig 7.iv.92. Loch Kander, Glen Callater (grid ref. NO1981), S. Aberdeenshire (v.c.92), larval workings of *C. coffeella* in *Salix myrsinifolia* Salisb. (= *nigricans* Smith).

BRITTON, M. R.—*Phyllonorycter tenerella* Joannis, Tonbridge, Kent, *P. quinnata* Geoff., Tonbridge, Kent, *P. spinicolella* Zeller, Stain Dale, Yorkshire, *P. blancardella* F., Dunnington, York, Yorkshire, *P. oxyacanthae* Frey, Stain Dale, Yorkshire. *P. quinqueguttella* Stainton, Strensall Common, Yorkshire, *P. salicicolella* (?) Sircom, Tonbridge, Kent, *P. junoniella* Zeller, Bridestones, Yorkshire, *P. cavella* Zeller, Tonbridge, Kent, *P. hilarella* (?) Zeller, Skipwith Common, Yorkshire, *P. coryli* Nic., Tonbridge, Kent, Stain Dale, Yorkshire, *P. tristrigella* Haw., Tonbridge, Kent, Malton, Yorkshire, *P. stettinensis* Nic., Dunnington, Yorkshire, *P. froelichiella* Zeller, Stain Dale, Yorkshire, *P. nicelli* Stainton, Tonbridge, Kent, Stain Dale, Yorkshire, *P. kleemannella* (?) F., Dunnington, Yorkshire, *P. corylifoliella* Hübner, Tonbridge, Kent, *P. comparella* Dup., Pangbourne, Berkshire, *P. acerifoliella* Zeller, Tonbridge, Kent, *P. geniculella* Ragonot, Dunnington, Yorkshire, on sycamore bole.

CLANCY, S. P.—Species taken in Dungeness area in late 1991 and during 1992. *Eudonia lineola* Curtis, Greatstone, July/early August 1992, two of at least seven taken, *Margaritia sticticalis* L. Greatstone, small male taken 13.ix.92, *Sitochroa palealis* D. & S., Dungeness, 24.vii.92, New Romney, 24.vii.92, *Sciota adelphella* F.v.R., two of the six adults taken in the area during 1992; specimens were taken at Dungeness, Lydd, New Romney, and the species was bred from a female taken at New Romney, *Acrobasis tumidana* D. & S. Greatstone, two taken early August 1992; a third taken Dungeness, 17.viii.92. *Ephestia figulilella* Gregson, Dungeness, one taken 9.x.91.

COLENUTT, S.—*Ancylosis oblitella* Zeller, Chale Green, I.o.W., 23.vi.92; *Uresiphita polygonalis* D. & S., Chale Green, 19.ix.92.

COOK, R. R.—*Evergestis extimalis* Scop., Kimmeridge, Dorset, 9.viii.92.

DAVEY, P.—The following all taken at light in south-eastern Dorset in 1992. *Evergestis extimalis* Scop., Durlston, 10.ix, *Hellula undalis* F., Gaunts Common, 19.ix, *Margaritis sticticalis* L., St Aldhelm's Head, 7.viii., *Paracorsia repandalis* D. & S., St Aldhelm's Head, 27.ix, *Ostrinia nubilalis* Hübn., Gaunts Common, 17.ix, *Sitochroa palealis* D. & S., Durlston, 30.vii, *Mecyna flavalis* D. & S., Gaunts Common, 30.vii, *Palpita unionalis* Hübn., St Aldhelm's Head, 27.ix.

ELLIOTT, B.—*Crambus ericella* Hübn., Rannoch Moor, 1992; *Udea uliginosalis* Curt., Perthshire, 1992; *Microstega pandalis* Hübn., Co. Clare, 1992; *Oidaematophorus lithodactyla* Treits., Derbyshire, larvae, moth bred, 1992; *Ectomyelois ceratoniae* Zeller, bred from larvae found mining in pomegranates bought in Hampshire; *Cryptoblabes gnidiella* Mill., from larvae found mining in old corollas of pomegranates from Israel, purchased in Derbyshire.

EMMET, LT COL. A. M.—Updated distribution maps of the Coleophoridae showing an increase of 974 vice-county records mainly due to the submission of records by members of the Society since the maps were first shown in 1988. Also statistical maps and tables showing the scale of recording in each vice-county.

Species new to north-west Essex. *Stathmopoda pedella* (L.) Saffron Walden, 23.vii.92. *Adoxophyes orana* F. R. Saffron Walden, 7.viii.92.

A selection of Coleophoridae from the 58 species studied in their early stages in 1992 to complete the descriptions given in MBGBI Vol. 3, now in preparation. *C. alnifoliae* Barasch, Petts Wood, Kent, 7.vii.92, from cases sent by D. O'Keefe, together with notes on the irregular timing of the early stages in the group to which the species belongs. *C. trigeminella* Fuchs Red Lodge, Suffolk, 7.vi.92, new to Suffolk. *C. ahenella* Hein. Bulford, Wilts, three vi.92, from cases received from M. Smith. *C. frischella* (L.) specimens reared vii–viii.92 from north-west Essex and Cambridgeshire (new to that county) from seed-heads of white clover (*Trifolium repens* L.). Possibly the first to be reared in Britain or even Europe. With notes. *C. ochrea* (Haw.) Meopham, Kent, from cases sent by D. O'Keefe, 1.viii.92. *C. vibicella* (Hübn.) Beaulieu, Hampshire, vii.92. *C. saturatella* Staint. Beaulieu, Hampshire, vii.92. *C. niveicostella* Zeller Shrewton, Wiltshire 19.vii, 4.viii.92. The case is hard to find and two adults emerged though only one case had been detected. *C. linosyridella* Fuchs Canvey Island, Essex, vii.92. Three unidentified species from Saffron Walden were also shown.

FAIRCLOUGH, A. J. AND R.—Six drawers of *Acleris cristana* D. & S., bred or collected over the last 30 years. These contained 117 of the 135 named forms with a few forms awaiting names.

FOSTER, A. P.—*Pyrausta sanguinalis* L., a single example from Port Stewart, Co. Londonderry, where it was common in dune slacks during a National Trust Biological Survey.

HART, C.—*Stenoptilia islandicus* (Staud.). In 1954 on the slopes of Ben Lawers, Vine Hall captured a series of plume moths thought to be a form of *Stenoptilia bipunctidactyla*. The series was presented to the British Museum (Natural History) in 1967.

In 1988 the moths were identified by Christian Gibbeaux as belonging to *Stenoptilia islandicus* and therefore new to the British list. Gibbeaux states that the species is known from Iceland, Greenland and Finland, so the Scottish record represents an interesting southern extension to its known range.

In June and July 1992 the exhibitor spent over a week in Scotland searching for this moth, finally finding just two specimens at about 800 metres (2600') on the slopes of an adjacent mountain, Meall nan Tarmachan, at a spot suggested by Bernard Skinner.

HECKFORD, R. J.—*Ischnoscia borreonella* (Millière) Portland, Dorset 8.viii.92 (with Dr J. R. Langmaid). *Caloptilia rufipennella* (Hübner) Guernsey, Channel Islands bred from *Acer pseudoplatanus* L. 2–10.ix.92. New to Channel Islands. *C. leucapennella* (Steph.) Guernsey, Channel Islands bred from *Castanea sativa* Miller 8 & 10.ix.92. Previously unrecorded foodplant. *Phyllocnistis xenia* Hering, Budleigh Salterton, Devon bred from *Populus × canescens* (Aiton) Smith 10.x.92 (with *P. unipunctella* (Steph.) for comparison). New to Devon; previously recorded only from Kent. *Tebenna micalis* (Mann) Chelson Meadow, Plymouth bred 11.viii.92; Plympton, Plymouth bred 11–13.viii.92; Heybrook Bay, Devon bred 17.viii.92. All from *Pulicaria dysenterica* (L.) Bernh. Plympton, Plymouth at light 9.ix.92, first such record for this diurnal species. Plympton, Plymouth bred 6 & 7.x.92, first record in the British Isles of a second brood. *Coleophora serpyllatorum* Hering Kennack Sands, Cornwall bred from *Thymus polytrichus* A. Kerner 10–20.vi.92 with 2 specimens bred from same foodplant 7 & 9.vii.1986 Poldhu Cove, Cornwall for comparison, the latter having almost unicolorous buff forewings. *Schiffermuelleria subaquileia* (Staint.) Haytor, Devon 31.v & 7.vi.92. New to v.c.3. *Amphisbatis incongruella* (Staint.) Haldon Hill, Devon 16.iv.92. New to Devon. *Anarsia lineatella* Zell. local shop, Plympton, Plymouth bred from nectarine 16.x.91. *Brachmia lutatella* (H.S.) Portland, Dorset 8.viii.92 at light (with Dr J. R. Langmaid). *Selenia leplastriana* (Curt.) Winspit, Dorset bred from *Brassica oleracea* L. 13–21.vi.92. *Cydia molesta* (Busck) local shop Plympton, Plymouth bred from Spanish plums 14–24.vii.92. *C. prunivorana* (Rag.) Plympton, Plymouth (exhibitor's garden) 20, 21 & 27.vi.92 at light. Ninth to eleventh British specimens. *C. coniferana* (Ratz.) Sned Wood, Herefordshire bred from *Pseudotsuga menziesii* (Mirbel) 17.v.92. Previously unrecorded foodplant. *Apomyelois bisriatella neophanes* (Durr.) Bickton Common, Devon bred from *Daldinia* on burnt gorse 21 & 24.v.92.

HOARE, R. J. B.—*Etainia louisella* Sircom, Chudleigh, Devon (v.c.3), ex larva descending from *Acer campestre* L., 8.v.92; *Trifurcula eurema* Tutt, Teg Down, Winchester, Hants (v.c.11), ex larva on *Lotus corniculatus* L., early ix.91; *Stigmella aceris* Frey, near Teg Down, Winchester, Hants (v.c.11), on *Acer campestre* leaf, 10.ix.92; *Infurcitinea albicomella* H.-S., Kynance Cove, Cornwall (v.c.1), put up from bare ground at 2 p.m., 6.vii.92, new to Cornwall, and fifth locality from Britain and Ireland; *Tebenna micalis* Mann, Kynance Cove, Cornwall, at rest on *Pulicaria dysenterica* leaf by day, 6.vii.92. *Caloptilia rufipennella* Hübner, Exeter University campus, Devon, one ex larva on *Acer pseudoplatanus*, 10.vi.92, new to Devon; near Teg Down, Winchester, Hampshire, three, ex larvis, 10.ix.92 on *Acer saccharinum* L. (the silver maple), new foodplant; *Dystebenna stephensi* Staint., Brockenhurst Woods, Hampshire (v.c.11), one flying 25.vii.92, first confirmed Hants record; *Gypsonoma oppressana* Treits., Exeter University campus, Devon (v.c.3), one flying around young *Populus nigra* L., 26.vi.92, new to Devon; *Epiblema incarnatana* Hübner, Stockbridge Down, Hampshire (v.c.12), one flying 12.viii.92; second Hants specimen; *Clavigesta sylvestrana* Curt., three exhibited of many bred from larvae in flowers of *Pinus* sp. (probably *P. pinaster* Aiton), 11.v.92; Bickton Common near Exeter, Devon (v.c.3).

KNILL-JONES, S. A.—The following all taken in m.v. light trap at Freshwater, Isle of Wight. *Ostrinia nubilalis* Hübner, 14.vii, 23, 28 & 29.ix.92; *Palpita unionalis* Hübner, 20.viii.92, *Pempelia palumbella* D. & S., 30.vi.92; *Platytes cerussella* D. & S., 23.vi.92; *Diurnea fagella* D. & S., including one melanic, 17.iii & 19.iii.92; *Phtheochroa rugosana* Hübner, 1.vii.92; *Epiphyas postvittana* Walker, 13.vi, 9.viii.92, *Zeiraphera isertana* F., 1.vii.92. Also *Hypsopygia costalis* F., ab., Niton, I.o.W., 29.vii.92 (Plate III, Fig. 6).

LANGMAID, DR J. R.—*Ischnoscia borreonella* Mill., Portland, Dorset, 8.viii.92 (one flying at dusk); *Archinemapogon yildizae* Koçak, Lynwilg, Inverness-shire, 30.vi.91; *Leucoptera orobi* Staint., Tulloch Moor, Morayshire, two bred from mines on *Lathyrus linifolius* (Reichard) Baessler, 28.vi.92; a species not seen for many years; *Elachista pomerana* Frey, Wicken Fen, 11.iv.92, four bred from *Calamagrostis epigejos* (L.) Roth, 11.iv.92; the first time this species has been bred in this country; *Biselachista trapeziella* Staint., Godshill, Hampshire, four bred from *Luzula sylvatica* (Hudson) Gaudin, 18.iv.92; *Exoteleia dodecella* L., Kincaig, Inverness-shire, 2.vii.92, two specimens of a particularly pale form; *Brachmia lutatella* H.-S., Portland, Dorset, one 8.viii.92 (see also R. J. Heckford's exhibit); *Acleris logiana* Cl., Botley Wood, Hampshire, larva on *Betula* sp., 30.ix, specimen bred; new to England; *Dichrorampha sylvicolana* Hein., Kincaig, Inverness-shire, two 28.vi.92.

LOWE, DR N. R.—A selection from Breconshire (v.c.42). *Opostega crepusculella* Zeller, *Phyllonorycter cavella* Zeller, *Cydia orobana* Treits., *Schiffermuelleria subaquilella* Stainton.

MCCORMICK, R. F. AND PENNEY, C. C.—*Euchromius ocella* Haw., Portland, Dorset; *Crambus uliginosellus* Zell., Hothfield Bog, Kent; *Catoptria margaritella* D. & S., Dinas, near Harlech, *Eudonia alpina* Curt., Meall-nan-Tarmachan, *E. murana* Curt., Dinas, near Harlech, *E. delunella* Staint., New Forest, Hampshire, *Evergestis extimalis* Scop., Stone, Kent, *Pyrausta cingulata* L., Ardnamurchan Point, Strathclyde, *Sitochroa palealis* D. & S., Stone, Kent, Stonelees, Kent, Hayling Island, Hampshire, *Anania funebris* Ström, Orlestone Forest, Kent, *Udea fulvalis* Hübn., Studland, Dorset, *Aglossa pinguinalis* L., Great Orme Head, Llandudno, *Agrotera nemoralis* Scop., East Blean, Kent, *Galleria mellonella* L., Hounslow, Middlesex, Horley, Surrey, from pupae, *Acrobasis tumidana* D. & S., Pagham, Sussex, *Epischnia banksiella* Richardson, Portland, Dorset, from larvae, *Hypochalcia ahenella* D. & S. Portland, Dorset, *Gymnancyla canella* D. & S., Theddlethorp, Lincolnshire, from larvae, *Ancylosis oblitella* Zell., Mersea Island, Essex, Chelmsford, Essex, *Euzophora cinerosella* Zell., Portland, Dorset, from larvae, *Apomyelois bistriatella* Hulst., New Forest, Hampshire, from larvae, garden North Cheam, Surrey, at m.v., *Platyptilia ochrodactyla* D. & S., Leatherhead, Surrey, from larvae, *Stenoptilia zophodactylus* Duponchel, Dungeness, Kent. *Pselnophorus heterodactyla* Müll., Cranham Wood, Gloucestershire, from larvae.

MANNING, D. V.—Moths new to Bedfordshire. (1) From Pegsdon Hills, a new nature reserve on chalk downs. *Pterophorus tridactyla* L., *Nemophora cupriacella* Hübn., *Coleophora niveicostella* Zell., *Scythris crassiuscula* Staint. (formerly *S. fletcherella* Meyr.). (2) Cooper's Hill, Amphill, a nature reserve with heather moor and acid mire. *Prochoreutis sehestediana* F., *Aristotelia ericinella* Zell. (3) *Nemapogon ruricolella* Staint., Cockayne Hatley Wood, *Scoparia basistrigalis* Knaggs, Flitwick Moor, *Dichrorampha aeratana* Pierce & Metcalf, Thurleigh, *Achroia grisella* F., Sharnbrook, *Chionodes fumatella* Dougl., Sharnbrook.

NASH, S.—*Ostrinia nubilalis* Hübn., Fernham, Oxon, 15.viii.92, 18.ix.92, *Evergestis pallidata* Hufnagel, Fernham, Oxon, 21.viii.92. *Aethes margarotana* Dup., Branscombe, S. Devon.

PARSONS, M.—A selection of species recorded during 1991 and 1992 including: *Dystebenna stephensi* Staint., *Microthrix similella* Zinck. and *Pseudotelphusa scalella* Scop., all from Richmond Park, Surrey. *Ancylosis oblitella* Zell., *Anania verbascalis* D. & S., *Stenodes alternana* Steph. and *Oegoconia deauratella* H.-S. (bred from roots of sea kale *Crambe maritima* L.), all from Dungeness, Kent, and *Phlyctaenia perlucidalis* Hübn., from Belham Wood, Northamptonshire.

PICKLES, A. J. AND C. T.—*Udea fulvalis* Hübn., further specimens from

Highcliffe, Dorset (v.c.11), where it appears to be breeding (exhibited for the late E. H. Wild). *Crambus pascuella* L. ab. *obscurellus* Stichel, Lyndhurst, New Forest, Hampshire, 3.vii.92. *Apomyelois bistriatella* Hulst ssp. *neophanes* Durrant, bred series from the New Forest. *Dioryctria schuetzeella* Fuchs, New Forest, 25.vii.92. Apparently the first record for the New Forest.

PLANT, C. W.—An example of the apparently very rare white form *nivella* Rebel of the moth *Calamotropha paludella* Hübn., taken at m.v. light at Rushey Mead, an Essex Wildlife Trust Nature Reserve on the Essex side of the River Stort at Bishops Stortford, on 29.vi.92 (Plate III, Fig. 2).

SIMPSON, DR A. N. B.—*Nemapogon variatella* Clemens, Old Hills, Worcs., 30.v.92 (first record for v.c.37) on oak trunk in old parkland, a similar habitat to where it occurs at Moccas Park in v.c.36. *Monopis weaverella* Scott, Trench Wood, Worcs., 18.v.92, first record for v.c.37. *Swammerdamia compunctella* H.-S., Wyre Forest NNR, 27.v.92, first record for v.c.37. *Euzophera cinerosella* Zell., bred from larvae found in v.92 at inland locality by River Severn at Worcester; the wormwood grows on sandy ballast on waste tip. *Coleophora siccifolia* Staint., bred from cases on *Malus* found in viii.91 at Hartlebury Common, Worcs.; finished feeding in autumn, hatched 8.v.92. *Eucosma conterminana* H.-S., bred from larvae found at Worcester and Evesham in ix.91; first record for v.c.37; apparently newly arrived in county as not present in same sites before 1991. *Clavigesta posticana* Zett., Bransford, Worcs., 23.v.92, in m.v. trap; first record for v.c.37. *Biselachista serricornis* Staint., Kincaig Marsh, Inverness, 3.vii.92, flying over small sedges and rushes at margin of loch. *Opostega crepusculella* Zell., Kincaig Marsh, 3.vii.92. *Elachista eskoi* Kyrki & Karvonen, Kincaig Marsh, Inverness, 29.vi.92, female disturbed from lochside vegetation around midday.

SKINNER, B.—A selection of local or variable species of Pyralidae taken or bred during 1990 to 1992 and including a specimen of *Elophila nymphaeata* L. with reduced wing markings, from the New Forest, Hampshire on 15.vi.92 (Plate III, Fig. 11); and a strongly banded specimen of *Hypochalcia ahenella* D. & S. from Addington, Surrey on 31.v.92. Also *Pempeliella ornata* D. & S., local form from Burren, Co. Galway, 22.iv.90, (Plate III, Fig. 13).

STERLING, COL. D. H., M. J. AND DR P. H.—*Bohemannia quadrimaculella* Boh., taken at Meathop, Cumbria, vii.92. *Myrmecozela ochraceella* Tengst., taken at Morrone Wood, Aberdeenshire, vii.92. *Bucculatrix capreella* Krog., bred from larvae on *Achillea millefolium* L., collected vii.92 at Invercauld, Aberdeenshire. *Calybites phasianipennella* Hübn., bred from rolls on *Rumex acetosella* L. collected ix.92 at Whixall Moss, Salop. *Depressaria silesiaca* Hein., bred from larvae on *A. millefolium* collected vii.92 Invercauld, Aberdeenshire. *Monochroa palustrella* Dougl., one of two found by Mr J. Pain, warden of Lower Test H.N.T. N.R. v.c.11 in vii.92. First confirmed Hampshire record. *Mompha nodicolella* Fuchs, bred from galls on *Chamaerion angustifolium* (L.) Holub., collected v.92 at Long Eaton, Derbys. *Olethreutes metallicana* Hübn., taken at Braemar, Aberdeenshire vii.92. *Olethreutes obsoletana* Zett., taken at Meikle Elrich Aberdeenshire, vii.92. *Acroclita subsequana* H.-S., from Portland, Dorset, x.92. *Epiblema cnicicolana* Zell., from new H.N.T. reserve, Hook Heath v.c.11, vi.92. *Eucosma conterminana* H.-S., taken in garden m.v. Winchester v.c.11, viii.92. New v.c.11 record. *Selania leplastriana* Curt., bred from larvae on *Brassica oleracea* L. from Folkestone, Kent, v.92. *Cydia medicaginis* Kuznetsov, taken in garden m.v. Winchester, v.c.11, vi.92. *Udea uliginosalis* Curt., taken in Morrone Wood, Aberdeenshire, vii.92. *Pempelia obductella* Zell., taken at Folkestone, Kent, vii.92.

UFFEN, R. W. J.—*Coleophora frischella* L. bred in England. Moths taken around *Trifolium repens* L. on a meadow 'set aside' from wartime cultivation since 1949

and now forming one side of Nomansland Common, Wheathampstead, Herts. They occurred at least from 3 to 16.vi.92, when seedheads were collected. 24 moths emerged in July from 150 seedheads. Cases were shown. No moths were found on an evening visit on 22.vii.92. The clover had finished flowering and the moths had presumably dispersed. It has always been clear from the dates of light-trap records that *C. frischella* would prove to be the only double-brooded *Coleophora* in Britain.

Coleophora alnifoliae Barasch, a moth taken with two larvae in final cases on *Alnus incana* (L.) Moench, before dusk on 1.vi.92 in the car park at Black Park, Iver (new to Bucks.). J. L. Newton and L. Price have found final cases in the autumn, in the Forest of Dean, and have disputed the timing recorded by R. W. J. Uffen in the *Field Guide to the Smaller British Lepidoptera*, dating from his discovery of the species in Surrey and Kent. The likely explanation is that the moth will be found to have a two-year life cycle in the west country. D.O'Keeffe showed Kentish moths from spring larvae in 1991.

Bohemannia quadrimaculella Boh., swept from alder, Lemsford Springs, Welwyn Garden City, Herts., 12.vii.92.

WARREN, R. G.—*Tinea piercella* Bent., Trentham, Staffs., 9.vii.91; new to Staffordshire. *Triaxomera parasitella* Hübn., Great Barr, Staffs., 17.vi.85; first Staffordshire record. *Batia unitella* Hübn., Titchmarsh Wood, Northants, 19.vii.92. *Euhypnomete stannella* Thunb., Dovedale, Staffs., 1.vii.56; not recorded elsewhere in the British Isles, an extremely localized colony, not seen recently and possibly extinct. *Blastobasis lignea* Wals., Lichfield, Staffs., 8.vii.92; new to Staffs. *Aphelia unitana* Hübn., Castern Wood, Staffs., 14.vii.79. *Ancylis geminana* Don., Crymlyn Bog, Glamorgan, 2.vii.92. *Cnephasia pasiuana* Hübn., Allimore Green, Staffs., 8.vii.65, *Pammene germinana* Hübn., Nicholaston Wood, Gower, Pembroke, 21.vi.91, *Eucosma hohenwartiana* D. & S. f. *fulvana* Steph., Ketton, Rutland, 19.vii.92, *Amblyptilia acanthodactyla* Hübn., Whixall Moss, Salop, 28.vii.92, *Scoparia ancipitella* La Harpe, Castern Wood, Staffs., 24.vii.82, *Crambus uliginosellus* Zell., Crymlyn Bog, Glamorgan, 2.vii.92.

WEDD, D.—*Phlyctaenia perlucidalis* Hübn., the first (1983) and third (1992) records for Buckinghamshire. *Microthrix similella* Zinck., believed to be the first record for Buckinghamshire.

WOOLDRIDGE, D. B.—*Hypsopygia costalis* F., a pink suffused aberration, Niton, I.O.W., 29.vii.92.

YOUNG, D.—*Myrmecozela ochraceella* Tengst., four specimens. The moth was recorded from 8 out of 14 wood ant nests in the Morrone birch woods, Braemar, a lightly wooded site. No moths were recorded from more casual observations on the Invercauld Estate, Braemar, where the ant nests were amongst dense pine.

YOUNG, DR M. R.—Some noteworthy Microlepidoptera from St Cyrus N.N.R., Kincardineshire. *Lampronia morosa* Zell., *Eulamprotes wilkella* (L.), *Elachista subocellea* (Steph.), *Reuttia subocellea* (Steph.), *Cochylidia rupicola* (Curt.), *Eudonia lineola* (Curt.), *Anerastia lotella* (Hübner), *Hypochalcia ahenella* (D. & S.), *Oxyptilus parvidactylus* (Haw.), *Adaina microdactyla* (Hübner).

FOREIGN LEPIDOPTERA

THE INOUE COLLECTION—Two drawers of Japanese Heterocera from the collection of Professor Hiroshi Inoue, shown by the British Museum (Natural History). Professor Inoue is presenting his entire collection of about 150 000 moths to the British Museum (Natural History). This collection is an outstanding resource, the result of many years' study and fieldwork in Asia, particularly Japan, Taiwan and

Nepal. The family Geometridae is particularly well represented, reflecting Professor Inoue's special research interest.

Professor Inoue has honoured the British Museum with his collection for several reasons. First, this museum already contains the largest and most comprehensive systematically arranged collections of Lepidoptera in the world, consisting of 8 million specimens and representing over 70% of the known species. There are more than 60 members of staff in the Entomology Department, of whom 18 specialize in the Lepidoptera.

Second, he feels that the strength of Lepidoptera studies at this institute means that his collection will be preserved for the future as well as immediately forming a part of a vital research tool. Thirdly, as his material becomes absorbed into the main collections, Professor Inoue believes that scientific visitors from Japan will have the opportunity to study a comprehensive collection within one institute.

A rapidly developing area of research in the British Museum is biodiversity—the study and explanation of the richness of species on the planet. A prime area of interest is the forested tropics of South-East Asia, and a strong interdisciplinary team is currently developing studies of Geometridae. Professor Inoue's collection is a timely and vital addition to these projects. Further growth of international research links and collaboration is intended to bring together scientists from Japan and SE Asian countries with scientists from Europe, North America and Australasia to tackle common problems of environmental science. The strategic location of Professor Inoue's collection in London is intended to foster and encourage Anglo-Japanese scientific interaction in tackling fundamental questions about rain forest biology within the context of Lepidoptera systematics.

Lepidopterists at the British Museum already have frequent and friendly associations with Japanese colleagues. The acquisition of the Inoue collection will strengthen and focus these scientific links. Establishment of a trust fund to enable promising young Japanese scientists to undertake periods of study at this Museum would set a highly appropriate seal on this relationship.

CORLEY, M. F. V.—Forty-eight species of Portuguese Gelechiidae *sensu stricto*, excluding Symmocidae, collected in the Algarve during the course of four one-week collecting trips in March 1989, October 1990, September 1991 and April 1992. The majority were taken at light, but the following were reared: *Metzneria aestivella* Zell. from *Carlina corymbosa* L., *Mirificarma mulinella* Zell. from *Cytisus* sp., *Syncopacma larseniella* Gozm. from *Lotus* sp., *Iwaruna biguttella* Dup. from *Dorycnium hirsutum* L., *Mesophleps lala* Agenjo from *Cistus palhinhae* Ingram and *M. oxycedrella* Mill. from *Juniperus phoenicea* L.

All specimens exhibited are named apart from *Teleiodes* sp., *Bryotropha* sp. (known from Spain, but not named), and an unnamed *Pseudotelphusa* sp., known from Spain and Portugal, but erroneously named *Teleiodes paripunctella* Thunb. The correct generic placement of '*Ptocheuusa*' *campicolella* Mann and '*Telphusa*' *cistiflorella* is not known.

Of the species exhibited, seven are previously unrecorded from the Iberian Peninsula, namely *Metzneria santolinella* Amsel, *Eulamprotes phaeella* Heckford & Langmaid, *Ptocheuusa paupella* Zell., *P. campicolella* Mann, *Aristotelia decoratella* Staud. *A. staticella* Mill. and *Scrobipalpa phagnaella* Const.; 18 are new records for Portugal, namely *Coloptilia conchylidella* Hofm., *Metzneria tenuiella* Mann, *M. torosulella* Rebel, *Telphusa cistiflorella* Const., *Mirificarma ulicinella* Staud., *Scrobipalpa wilshirei* Povolny, *S. superstes* Povolny, *S. instabilella* Dougl., *S. ocellatella* Boyd, *Ephysteris promptella* Staud., *Caryocolum provinciella* Staint., *Palumbina guerinii* Staint., *Syncopacma sangiella* Staint., *S. larseniella* Gozm., *Iwaruna biguttella* Dup., *Mesophleps lala* Agenjo, *M. oxycedrella* Mill. and *Dichomeris acuminatella* Staud.

The remaining species shown were *Metzneria castiliella* Möschl., *Isophrictis lineatella* Zell., *Apodia bifractella* Dup., *Eulamprotes helotella* Staud., *Aristotelia ericinella* Zell., *Schistophila laurocistella* Chrét., *Bryotropha figulella* Staud., *B. domestica* Haw., *B. plebejella* Zell., *Mirificarma eburnella* D. & S., *Phthorimaea operculella* Zell., *Nothris verbascella* D. & S., *Sophronia exustella* Zell., *Aproaerema anthyllidella* Hübn., *Platyedra subcinerea* Haw., *Anarsia lineatella* Zell., *Onebala lamprostoma* Zell. and *Dichomeris limbipunctella* Staud.

CRONIN, A. R.—A selection of Rhopalocera from the Philippines.

EDMUNDS, H.—A mixed exhibit with emphasis on Pyrenean insects, including *Archon apollinus* Herbst, from Ephesus, Turkey, where it flies early in the season and seems quite unaffected by cold conditions; *Parnassius apollo* L. from the Alps and Pyrenees, the former with whiter, less creamy ground colour; *Colias phicomone* Esp., a variable, fast-flying species taken on the very top of a precipitous Pyrenean ridge; *Nymphalis polychloros* L., one of the several seen in 1966 on the edge of a forest in the French Pyrenees. None could be found on a return visit in 1992, the population probably having suffered as a result of the ravages of Dutch elm disease in the area; *Pandoriana pandora* D. & S. from France; *Fabriciana adippe* D. & S., specimens from Devon, the New Forest, Basses Pyrenees and Spain compared. Years back, when the exhibitor took the two shown, the species was flying in thousands in the New Forest—now it has gone; *Boloria pales* D. & S., ssp. *pyrenesmiscens* Vty, from the high Pyrenees; *Clossiana dia* L., widely distributed in the Pyrenees, near the limit of its western distribution in Europe; *Mellicta parthenoides* Kef., widely distributed and common in the Pyrenees; *Erebia hispania* Butler, a very local butterfly found only in one small area of the Pyrenees and on the Sierra Nevada in southern Spain; *E. lefebvrei* Boisd., ssp. *pyrenaica* Oberth., a local species taken on rugged, broken scree in the Spanish Pyrenees; *E. meolans* de Prun., widespread in the Iraty Forest near St Jean Pied de Port, French Pyrenees; *Oreopsyche* sp., a curious moth which flies by day in the Pyrenees and resembles a drifting willowherb or dandelion seed; *Isturgia limbaria* F., extinct in Britain but very common on the broom-covered slopes of the Cevennes, S. France; *Crocota peletieraria* Dup. from the high Pyrenees; *Gnophos obfuscatus* D. & S., large and well-marked specimens from Mull; *Spiris striata* L., widespread in flowery mountain meadows and easily disturbed by day.

GOATER, B. AND MRS J.—A selection of moths taken in Canton Valais, Switzerland, 10–19.vi.92. (1) Sesiidae. *Chamaesphecia affinis* Staud., locally common by day over the foodplant, *Helianthemum nummularium* (L.) Miller.

(2) Pyralidae. *Chrysoteuchia culmella* L., ssp. *montanella* Steph., *Catoptria conchella* D. & S., *C. mytilella* Hübn., *Pediasia luteella* D. & S., *Paracorsia repandalis* D. & S., *Catastia marginata* D. & S., *Pterothrixidia rufella* Dup., *Myelopsis tetricella* D. & S.

(3) Geometridae. *Idaea sericeata* Hübn., *I. flaveolaria* Hübn., *I. aureolaria* D. & S., *I. humiliata* Hufn., *Scotopteryx vicinaria* Dup., *Horisme aemulata* Hübn., *H. calligraphata* H.-S., *Paraeulype berberata* D. & S., *Eupithecia alliaria* Staud., ssp. *notata* Dietze, *E. cauchiata* Dup., *E. pernotata* Guen., *E. satyrata* Hübn., *Epilobophora sabinata* Geyer, *Pseudopanthera macularia* L., much larger than specimens from England, shown for comparison, *Psodos quadrifaria quadrifaria* Sulz. compared with the narrower-banded ssp. *pyrenaica* Schawerda from the French Pyrenees.

(4) Noctuidae. *Yigoga forcipula* D. & S., *Chersotis fimbriola* Esp., ssp. *maravignae* Dup., *Eugraphe sigma* D. & S., *Polia serratilinea* Treits., *Mamestra aliena* Hübn., *Sideridis anaphales* Nye, *Hadena caesia* D. & S., representatives of what appears to be a very variable race, *H. laudeti* Boisd., *Cucullia santonicae* Hübn., ssp. *odorata* Guen., *Omia cymbalariae* Hübn., netted by day, *Calliergis ramosa* Esp., *Apamea*

rubrivena Treits., *A. platinea* Treits., *Panchrysia v-argenteum* Esp., bred from a larva on *Thalictrum*, *Syngrapha ain* Hochenwarth, *Polypogon tentacularia* L., locally common by day along border of hay meadow.

HALL, N.—(1) Specimens of the hawk-moth *Marumba quercus* D. & S. with notes on breeding. A female specimen of this species, the oak hawk-moth, caught in northern Spain in vii.91 laid about 50 eggs in a pill-box. The eggs were covered with meconium but nevertheless proved fertile. According to Friedrich (*Breeding butterflies & moths*, English edition, 1986) the species is very difficult to breed and heavy losses or total loss of all stock can suddenly occur. In this case however, despite generally ignoring Friedrich's advice, no heavy losses were experienced at any stage, though numbers slowly dwindled to about 25 full-fed larvae. Nearly half of these were given away to friends. From the rest, eleven pupae were obtained; the first to emerge was a female, followed by eight males. Two female pupae failed to emerge.

The young larvae ate only their eggshells in the first instar, resting along the midrib on the underside of an oak leaf afterwards until ecdysis. The dry leaves with young larvae were removed and placed, four to a box, in containers with fresh food. Both deciduous and evergreen oak were provided during the early instars, the smaller larvae preferring the deciduous, in the final instars only evergreen oak was provided, and the larvae showed a clear preference for the fresh growth of the current year. Food was changed every three days. No attempt was made to expose the larvae to fresh air and sunlight (said to be essential by Friedrich). Full-fed larvae were given individual boxes of peat in which to pupate so that they would not disturb one another, and were overwintered in these boxes, dug up and resting on the surface of the peat, in a cool cellar. They were brought into a warm room in April in the expectation that emergence would occur in April/May, but they did not start until the end of June, and the pupae had to be given periodic tepid baths to prevent them from drying out.

(2) Two cases of Lepidoptera from north and east Spain during September 1992, the first containing species (mostly noctuids) unknown in Britain, and the second with species occurring in Britain but represented in Spain by different forms or subspecies. Zygaenidae: *Zygaena occitanica* Vill. and *Z. trifolii* Esp. from Cullera, Valencia, sandhills, with cocoons and pupa cases. Pyralidae: *Loxostege sticticalis* L., *Uresiphita polygonalis* F., *Sclerocona acutellus* Ev. Danaidae: *Danaus chrysippus* L. from Cullera, Valencia, now a regular migrant to the east coast of Spain as far north as the Ebro delta, some 100 miles to the north of Cullera. The foodplant, *Asclepias*, is not native but now widely planted, and some individuals are said to be locally bred. Lasiocampidae: *Streblote panda* Hübn., a male specimen of this peculiar lasiocampid which is restricted to the Mediterranean coast. Geometridae: *Scotopteryx peribolata* Hübn. Notodontidae: *Furcula bifida* Brahm. Arctiidae: *Coscinia cribaria* L., *Eilema predotae* Schawerda. Noctuidae: *Euxoa mendelis* Fernandez, a Spanish endemic, *Agrotis crassa* Hübn., *A. dirempta* Staud., *A. puta* Hübn., *Powellinia pierreti* Bugnion, *Cladocerotis optabilis* Bois., *Ochropleura constanti* Mill., *O. plecta* L., *Paradiarsia glareosa* Esp., *Xestia kermesina* Mab., *X. agathina* Dup., *Mesogona acetosellae* D. & S., *Mythimna umbriger* Saalm., *Episema glaucina* Esp., *Leucochlaena oditis* Hübn., *Aporophyla haasi* Staud., *Allophytes alfaroi* Agenjo, *Blepharita spinosa* Chrét., *Dryobotodes cerris* Bois., *Trigonophora flammea* Esp., *T. jodea* H.-S., *T. crassicornis* Oerth., *Polymixis canescens* Dup., *P. xanthomista* Hübn., *P. argillaceago* Hübn., *Ammopolia wizenmanni* Standf., *Simyra albovenosa* Goetze, *Eumichtis lichenea* Hübn., *Pseudenargia ulicis* Staud., *Luperina nickerlii* Freyer, ssp. *albarracina* Schwingenschuss, *L. dumerilii* Dup., *Photodes pygmina* Haw., *Platysenta viscosa* Freyer, *Spodoptera cilium* Guen., *Stilbia andalusica* Brsn, *S. philopal* Graslin, *Nycteola siculana* Fuchs, *Eublemma cochyloides* Guen., *E. jucunda*

Hübner, including two black females with uniformly curved fasciae, a form the exhibitor had not seen illustrated, together with a normal female with angular fasciae on the forewings, *E. parva* Hübner, *Trichoplusia ni* Hübner, *Hypena lividalis* Hübner.

HOLLINGWORTH, T. S.—(1) Some interesting and sometimes unusual French and Spanish Heterocera. Limacodidae: both British species occur in S. W. France; two specimens of *Heterogenea asella* D. & S. were exhibited. Psychidae: *Oreopsyche plumifera* Ochs. found in February, flying in numbers in hot sunshine over a patch of damp, partially-frozen ground on a south-facing slope in the Pyrenees, above the snow line. Coleophoridae: *Coleophora vibicella* Hübner, with its case, a common species in S. W. France. Oecophoridae. Several species, including *Topeutis barbella* F., *Oecophora bractella* L., *Orophia sodridella* Hübner and *Esperia oliviella* F. Ethmiidae: *Ethmia dodecea* Haw., *E. terminella* Fl. and *E. bipunctella* F. together with some unidentified tineids of similar coloration. Plutellidae: *Ypsolopha asperella* L., a species which flies early in the year and is probably overlooked; *Rhignostis incarnatella* Staud. Geometridae: the tiny emerald, *Eucrostis indigenata* Vill. from the Ebro delta, also found in southern France; *Idaea extarsaria* H.-S., ssp. *eripodota* Gras., stated by Leraut to be confined to Corsica, but the specimens shown were from S. W. France; *Nychiodes andalusiaria* Mill., *Psodos quadrifaria* Sulz., ssp. *pyrenaea* Ch. Oberth., found above the tree line in the Pyrenees at flowers of alpenrose, *Rhododendron ferrugineum* L., where it is locally common. Noctuidae: two examples of *Luperina dumerillii* Dup., *Autographa bractea* D. & S., evidently quite common in and around the Pyrenees; *Ctenoplusia accentifera* Lef., on the other hand, is not at all common in mainland France—the specimen shown was from Bastia, Corsica; the attractive yellow-hindwinged catocalid, *Ephestia fulminea* Scop.

(2) A box containing between 30 and 40 species of European Pyralidae, subfamily Pyraustinae. Included were several members of the genus *Pyrausta* Schrank, a specimen of *Udea alpinalis* D. & S. and several of the Pyrenean form of *U. olivalis* D. & S., distinct from that found in Britain.

(3) Another box containing Pyralidae of different subfamilies, including the unusual and little known *Heliothela atralis* Hübner, the attractive phycitine *Eurhodope rosella* Scop. and the crambine *Chilo suppressalis* Walk., a pest wherever rice is grown.

PLANT, C. W.—Heterocera taken in Hungary during 1991 and 1992. Lasiocampidae: *Trichiura crataegi* L. Notodontidae: *Tritophia tritophus* D. & S. Thaumetopoeidae: *Thaumetopoea processionea* L. Noctuidae: *Opigena polygona* D. & S., *Chersotis rectangula* D. & S., *C. margaritacea* Vill., *Noctua interposita* Hübner, *Lycophotia porphyrea* D. & S., *Mesogona acetosellae* D. & S., *Anarta myrtili* L., *Hada nana* Hufn., *Mamestra brassicae* L., *Mythimna turca* L., *M. l-album* L., *Antitype chi* L., *Agrochola nitida* F., *Cosmia sulphurago* Staud., *Acrionicta megacephala* D. & S., *A. leporina* L., *Craniophora ligustri* D. & S., *Cryphia algae* F., *Amphipyra livida* F., *Telesilla amethystina* Hübner, *Actinotia polyodon* Cl., *Calamia tridens* Hufn., *Hoplodrina aspersa* Ramb., *H. superstes* Ochs., *Eublemma purpurina* Hübner, *Emmelia trabealis* Scop., *Nycteola asiatica* Krul., *Abrostola asclepiadis* D. & S., *Macdunnoughia confusa* Steph., *Catocala nupta* L., *C. elocata* Esp., *C. electa* View., *C. puerpera* Giorna, *Dysgonia algira* L., *Paracolax tristalis* F.

REID, J.—An extreme aberration of *Melitaea didyma* Esp. and another of *Lysandra bellargus* Rott., taken while the exhibitor was photographing butterflies in France.

SIMMONS, M. J.—Insects, mostly Lepidoptera, taken in Andorra between 20.vii. and 2.viii.1992. Hepialidae: *Pharmacis pyrenaicus* Donz. Zygaenidae: *Zygaena carniolica* Scop., *Z. fausta* L., *Z. hilaris* Ochs. Sesiidae: *Bembecia scopigera* Scop. Lasiocampidae: *Malacosoma castrensis* L., *Lasiocampa quercus* L., *Dendrolimus pini* L., *Gastropacha quercifolia* L., *Phyllodesma suberifolia* Dup. Geometridae: *Thalera fimbrialis* Scop.,

Scopula incanata L., *S. immorata* L., *Scotopteryx moeniata* Scop., *S. diniensis* Neuburger, *S. coelinaria* L., *Hydriomena furcata* Thunb., *Euphyia biangulata* Haw., *Crocota peletieraria* Dup., *Nychiodes andalusiaria* Mill., *Cleorodes lichenaria* Hufn., *Gnophos obscuratus* D. & S., *Aspilates gilvaria* D. & S. Sphingidae: *Laothoe populi* L., *Hyloicus pinastri* L., *Macroglossum stellatarum* L., *Deilephila porcellus* L. Notodontidae: *Phalera bucephala* L., *Furcula bifida* Brahm, *Notodonta dromedarius* L., *Pheosia tremula* Clerck, *Drymonia querna* D. & S., *Rhegmatophila alpina* Bell., *Clostera curtula* L., *C. pigra* Hufn. Thaumetopoeidae: *Thaumetopoea pityocampa* D. & S. Lymantridae: *Leucoma salicis* L., *Lymantria monacha* L. Arctiidae: *Setina irrorella* L., *Chelis maculosa* Gerning, *Diaphora mendica* Clerck, *Euplagia quadripunctaria* Poda. Noctuidae: *Chersotis ocellina* D. & S., *Eugnorisma depuncta* L., *Xestia rhomboidea* Esp., *Pachetra sagittigera* Hufn., ssp. *pyrenaica* Oberth., *Hadena compta* D. & S., *H. filigrana* Esp., ssp. *xanthocyanea* Hübn., *Cucullia lucifuga* D. & S., *C. verbasci* L., *Lophoterges millierei* Staud., *Polymixis dubia* Dup., *Antitype chi* L., *Acrionicta leporina* L., *A. euphorbiae* D. & S., *Cryphia domestica* Hufn., *C. ravula* Hübn., *Enargia paleacea* Esp., *Cosmia affinis* L., *C. trapezina* L., *Apamea lateritia* Hufn., *Calyptra thalictri* Borkh., *Bena prasinana* L., *Syngrapha interrogationis* Hübn., ssp. *pyrenaica* Hamps., *Panchrysia v-argenteum* Esp., *Autographa bractea* D. & S., *Lygephila cracca* D. & S., *Euclidia glyphica* L., *Laspeyria flexula* D. & S., *Catocala promissa* D. & S., *C. nymphagoga* Esp., *C. conversa* Esp. Rhopalocera: *Hipparchia alcyone* D. & S., *Erebia meolans* de Prun., *E. oeme* Hübn., *E. cassioides* Hohenwarth, *Coenonympha arcania* L., *Lysandra coridon* Poda, *Agriades glandon* de Prun., *Pseudaricia nicias* Meig., *Spialia sertorius* Hoffman.

Of particular interest were the following: (1) *Pharmecis pyrenaicus* a rare Pyrenean endemic; the female is brachypterous with forewing length c.8 mm, and cannot fly. The male, a specimen of which was exhibited, is fully winged.

(2) *Bembecia scopigera*. Although the identity of the specimens requires confirmation, it is certainly new to Andorra. According to Dr P. J. L. Roche, the only Sesiidae reported from Andorra to date are *Sesia apiformis* Clerck, *Synanthedon monspeliensis* Staud. and *Bembecia chrysidiformis* Esp. and it is certainly not one of these.

(3) *Lymantria monacha*. The specimens exhibited show a gradation from normal to melanic forms.

(4) *Panchrysia v-argenteum*. Until 1980, this species was unknown in the Pyrenees, the nearest localities being in the Alps. On 3.viii.80. Dr Roche found a specimen resting on a wall near a street lamp in St Julia de Loria, and more recently it has been reported from the Eastern Pyrenees and from the Val d'Aran in northern Spain. It will probably be found wherever the foodplant, *Thalictrum*, occurs in the eastern Pyrenees.

TREMBATH, D. A.—(1) A selection of interesting or rare Rhopalocera collected in Kenya, mostly between December 1989 and April 1992, including the three subspecies of *Papilio dardanus* Brown with female forms; *Graphium polystratus* Gross-Smith and *G. kirbyi* Hewitson, found commonly on the coast before the main rains of April; *Pontia glauconome* Klug, an uncommon butterfly of the desert region of northern Kenya; *Colotis hetarera* Gerstaecker, the three subspecies, including ssp. *lorti* Sharp, from Mount Kulal in north Kenya; *Amauris echeria* Stoll, ssp. *septrionis* Poulton; *Acraea pudorina* Staud., an uncommon butterfly in Kenya shown together with the very rare *A. utengulensis* Thurau taken in 1982; a short series of what is thought to be an undescribed but not new *Acraea* sp., similar to *A. braesia* Godman. D'Abrera illustrates the female as a form of *A. braesia*, but not the male, which is similar to the female: a distinctive feature is the black discal spot, acute to the costa and not obtuse as in *A. braesia*; *Neptis nicobule* Holland, a canopy-inhabiting species

which is probably less rare than supposed; *Pseudathyma plutonica* Butler, a rare species from western Kenya; seven species of *Charaxes* including *C. smaragdalis* Butler and *C. blanda* Poulton, only known from coastal Kenya; thirteen species of HesperIIDae new to the exhibitor.

(2) A drawer containing 36 species of Kenyan Lycaenidae, some of the rarer being: *Aslauga purapescens* Holland; *Lipaphnaeus aderna pan* Talbot; *Chloroselas esmeralda* Butler from northern Kenya, a butterfly that flits with tremendous speed and is difficult to follow with the eye, locally common but rarely seen; *Erisinia bilinea* Talbot, a very rare species from western Kenya; *Iolaus menas tatiana* D'Abrera, fairly confidently identified, an extremely rare species and possibly one of only a few from Kenya; six species of confusingly similar *Athene* spp.; *Lepidochrysops pterou* Bethune Baker, *L. elgonae* Stempffer and *L. neonegus* Bethune Baker—all very local and fast, powerful fliers which are difficult to net on the rocky terrain which is their typical habitat.

TREMEWAN, W. G.—A box of *Zygaena* F. species collected in Spain, France and Italy during July and August, 1992: *Zygaena sarpedon* Hübn., *Z. rubicundus* Hübn., *Z. purpuralis* Brün., *Z. hilaris* Ochs., *Z. rhadamanthus* Esp., *Z. anthyllidis* Hochenwarth, *Z. loti* D. & S., *Z. nevadensis* Ramb., *Z. osterodensis* Reiss, *Z. transalpina* Esp., *Z. hippocrepidis* Hübn., *Z. filipendulae* L., *Z. trifolii* Esp., *Z. loniceriae* Scheven.

WEST, B. K.—(1) Three pairs of confusingly similar-looking Rhopalocera—*Eurema hecabe* L. and *E. senegalensis* Boisd. from the Atakora Mountains, Togo; *Eurema daira* Godart and *E. elathea* Cram. from Port of Spain, Trinidad; *Acraea encedon* L. and *A. lycia* F. from Kpalimé, Togo. *E. senegalensis* and *A. lycia* have recently been raised to specific rank.

(2) *Colias australis* Verity, an extreme aberration taken at Langen am Arlberg, Austria, 18.viii.52 (Plate II, Fig. 10); *Colotis ione* Godart, gynandromorph taken at Wyliespoort, N. Transvaal, 9.vii.56 (Plate II, Fig. 11).

DIPTERA

ALEXANDER, K. N. A. AND FOSTER, A. P.—A selection of Syrphidae found during the National Trust's Biological Survey visit to Northern Ireland in 1992 (localities National Trust property unless stated): *Brachyopa scutellaris* R.-D., Inisherk Island, Crom Castle Estate, Fermanagh, female swept on 1.vi; *Orthonevra brevicornis* Loew, Crom Castle Estate, 26.v; *Anasimyia transfuga* (L.), Lough Coole, Castle Coole Estate, Fermanagh, 2.vi, also seen at Crom Castle, 26.v; *Parhelophilus versicolor* (F.), Castle Ward Estate, Down, 24.vi; *Criorhina berberina* (F.), widespread in ancient woodland and old parkland in Fermanagh—Crom Castle Estate, 26.v; Castle Coole Park, 2.vi and Florence Court, 3.vi; *Tropidia scita* (Harris), brackish marsh below cliffs at Port Noffer, Giant's Causeway, Antrim, 8.vi—also seen at Crom Castle Estate and Quoile Pondage N. N. R. (not N. T. property), Down, 4.vii.

DOBSON, J.—(1) Twenty-one species of Diptera (from Surrey, unless stated otherwise) including the following: *Atherix ibis* (F.) (Athericidae), Thundry Meadows, 26.vi.1991; *Dioctria oelandica* (L.) (Asilidae), Elstead Common, 2.vi; *Pipiza lugubris* (F.) (Syrphidae), Camel Trail Forestry Commission Reserve, Cornwall, on bramble blossom, 3.vii.1991; *Scaeva selenitica* (Meig.) (Syrphidae), Hankley Common, 9.vi.1991; *Lonchoptera nitidifrons* Strobl (Lonchopteridae), Thundry Meadows, ii.v.1991; *L. mejerei* Collin, females by the River Tay, Stanley, v.c.88, 14.v.1991; several examples of *Myopa* species (Conopidae), not yet fully determined, including three species found on the same *Rhododendron* bush at Netley; *Myopites inulaedyssentericae* Blot (Tephritidae), Botany Bay, 20.vii.1991, a number seen on

Pulicaria; *Servillia ursina* (Meig.) (Tachinidae), Netley, 8.iv.1991, several sunning on logs; *Nowickia ferox* (Panz.) (Tachinidae), Netley, 26.vii.1992; *Gymnosoma rotundatum* (L.) (Tachinidae), Botany Bay, 14.vii.1991, also found very locally at Netley in 1991 and 1992; *Cylindromyia interrupta* (Meig.) (Tachinidae), Botany Bay, 30.v. and 14.vii.1991.

(2) Some larger Brachycera from Holland, found on extensive coastal dunes at Amsterdamsse Waterleideningsduinen, 5.vii.1992, including *Hemipenthes morio* (L.) (Bombyliidae) and some unnamed Therevidae.

GODFREY, A.—Twelve species of assorted Diptera from Scotland, Yorkshire and Oxfordshire: *Aspistes berolinensis* (Meig.) (Scatopsidae), Killinallan dunes, Islay, 21.vi.1992, frequent on several machair dunes on Islay; *Acrocera orbicula* (F.) (Acroceridae), Mugdock Country Park, north of Glasgow, 18.vi.1992, new to Scotland, first record north of Cumbria; *Empis laetabilis* Collin (Empididae), Pot Ridings Wood, S. Yorks., 11.vii.1992, frequent there in 1991 and 1992; *Nephrocerus flavicornis* Zett. (Pipunculidae), Bradfield Farm, Abingdon, Oxon., 14.vii.1992, water trap in shady woodland by railway line; *Parochthiphila coronata* (Loew) (Chamaemyiidae), Tinsley Sewage Beds, Sheffield, S. Yorks., 29.vii.1991, currently known from only two other sites in Britain, both coastal; *Eccoptomera longiseta* (Meig.) (Heleomyzidae), Dry Sandford Pit, Oxon., 17.v.1992, base of 'cliffs' in limestone quarry; *Crumomyia pedestris* (Meig.) (Sphaeroceridae), by River Ock, Abingdon, Oxon, 14.vii.1992, pitfall trap at edge of field near *Carex* marsh; *Periscelis annulata* (Fall.) (Periscelidae), Ballinluig Shingle Island, Pitlochry, Perthshire, 15.vi.1992, swept by J. Mousley; *Pseudopachychaeta heleocharis* (Nartshuk) (Chloropidae), Tinsley Sewage Beds, Sheffield, S. Yorks., 31.vii.1991, det. J. W. Ismay; *Scathophaga scybalaria* (L.) (Scathophagidae), two sites on east side of Islay, Baleachdrach and Loch Leathen, acid bog, 22. and 23.vi.1992; *Azelia aterrima* (Meig.) (Muscidae), Abhain à Bhail Lochdaraich, Islay, 22.vi.1992; *Coenosia distinguens* Collin (Muscidae), Baleachdrach, 12.viii.1992, bog, frequent at several sites on Islay.

HALSTEAD, A. J.—Various Diptera collected in 1992: *Oxycera dives* Loew (Stratiomyidae), Water of Ruchill, Auchnashelloch, Mid Perths., 18.vi., swept from sallow; *Xylophagus ater* Meig. (Xylophagidae), Damhead Wood, W. Perths., 14.vi; *Rhagio notatus* (Meig.) (Rhagionidae), Damhead Wood, W. Perths., 14.vi; *Xanthogramma festivum* (L.) (Syrphidae), Witley Common, Surrey, 16.v; *Cheilosia illustrata* (Harris) (Syrphidae), Stirling University Lake, Stirlings., 20.vi, a specimen lacking the usual wing shading (a typical specimen included for comparison); *Conops vesicularis* L. (Conopidae), Witley Common, Surrey, 16.v, in jaws of a crab spider on *Crataegus* blossom; *Trypeta immaculata* Macq. (Tephritidae), Water of Ruchill, Auchnashelloch, Mid Perths., 18.vi; *Ceroxys urticae* (L.) (Otitidae), Royal Horticultural Society Garden, Wisley, Surrey, 27.iv, in Polythene tunnel, a specimen with broken second and third cross bars on the wings (a typical specimen included for comparison); *Sphenella marginata* (Fall.) (Tephritidae), Chobham Common, Surrey, 9.viii., swept from *Senecio* species; *Agromyza abiens* Zett. (Agromyzidae), Royal Horticultural Society Garden, Wisley, Surrey, emerged 24.viii, ex leaf mines in *Echium candicans* (a glasshouse plant); *Pegomya bicolor* (Hoff.) (Anthomyiidae), Chertsey, Surrey, emerged 19.vi., ex leaf mines in *Begonia semperflorens*; *Phasia hemiptera* (F.) (Tachinidae), Juniper Bottom, Box Hill, Surrey, 11.vii.

MCLEAN, I. F. G.—Eleven species of Diptera recorded at the Dinton Pastures Inaugural Field Meeting, Berks., 20.ix.1992, all from the margin of Mungell's Pond, including a map and photograph showing the location of the collecting area; the muddy fringes of the drying out pool proved unexpectedly good for some flies characteristic of wetlands and aquatic margins. The following species were exhibited: *Dolichopus*

latelimbus Macq.; *Rhaphium micans* (Meig.); *Campsicnemus pectinulatus* Loew; *Chrysotus suavis* Loew (all above Dolichopodidae); *Colobaea punctata* (Lund.) (Sciomyzidae); *Pherbellia grisescens* (Meig.) (Sciomyzidae); *Sciomyza simplex* Fall. (Sciomyzidae); *Sphenella marginata* (Fall.) (Tephritidae); *Ochthera mantis* (Deg.) (Ephydridae); *Elachiptera uniseta* Collin and *E. diastema* Collin (Chloropidae).

PARKER, M. J.—Seventeen species of Diptera from Dorset and Scotland: *Chrysops sepulchralis* (F.) (Tabanidae), Oakers Wood, Dorset, 6.viii.1989, locally numerous, swept from *Narthecium ossifragum* (L.) Hudson; *Thyridanthrax fenestratus* (Fall.) (Bombyliidae), Winfrith Heath, Dorset, 27.vii.1991, female on *Senecio jacobaea* L.; *Laphria flava* (L.) (Asilidae), Culbin Forest, Nairn, 15.vii.1991, male basking on pine log; Syrphidae: *Microdon eggeri* Mik, Scrubbity Burrows, Cranbourne Chase, Dorset, 25.v.1992, female on *Betula pendula* Roth log; *Platycheirus ramsarensis* Goeldlin, Maibach & Speight, Loch à Ghabhran, W. Ross, 17.vii.1991, male swept from loch side; *P. melanopsis* Loew, Ben Lawers, Mid Perth., 17.vi.1992, males hovering by dirt track, female swept at 2000 feet and above; *P. amplus* Curran, Falls of Leny, W. Perth., 15.vi.1992, male swept from damp meadow within wood; *Xanthogramma festivum* (L.), Ashley Chase, Dorset, 25.v.1991, male hovering by an anthill; *Chrysotoxum vernale* Loew, Tadnoll, Dorset, 4.v.1992, male on *Caltha palustris* flower; *Cheilosia carbonaria* Egger, Hooke Park, Dorset, 14.viii.1991, male and female on *Leontodon hispidus* L.; *C. cynocephala* Loew, Warmwell Heath, Dorset, 18.viii.1991, male basking on herbage by roadside; *Ferdinandea ruficornis* (F.), Oakers Wood, Dorset, 21.iv.1991, female on *Prunus spinosa* L. flower, second Dorset record; *Pelecocera tricolor* Meig., Warmwell Heath, Dorset, 24.vii.1991, swept from dry heath; *Chamaesyrphus scaevoides* (Fall.), Culbin Sands, Nairn, 15.vii.1991, swept near to spot where *C. caledonicus* Collin was taken (see Exhibit by A. Wass below); *Psilota anthracina* Meig., Mark Ash Wood, New Forest, Hants., 16.v.1992, male on *Crataegus monogyna* Jacq. flower; *Criorhina ranunculi* (Panz.), Oakers Wood, Dorset, 13.iv.1991, male on *Prunus spinosa*; *C. asilica* (Fall.), Oakers Wood, Dorset, 17.v.1992, male on *Crataegus monogyna* flower; Princes Wood, Dorset, 22.v.1992, female on *Allium ursinum* L. flower.

PERRY, I.—A selection of uncommon Diptera found in 1992: *Platypalpus ingenuus* (Collin) (Hybotidae), Wicken Fen, Cambs., 31.v., swept from grassland; *Rhamphomyia physoprocta* Frey (Empididae), Gartochraggan, Loch Lomond, Stirlings., 17.vi, female swept from marsh, new to Scotland; *Hilara media* Collin (Empididae), Methven Woods, Perth., 18.vi, male swept from shady stream in oak woodland, new to Scotland; *Dolichopus maculipennis* Zett. (Dolichopodidae), Ben Lawers, Perth., 16.vi, at 750–850 metres by boggy pool and on seepages; *Systemus bipartitus* (Loew) (Dolichopodidae), Craigellachie, Inverness, 21.vi., male swept from birch woodland, new to Scotland; *Xanthandrus comtus* (Harris) (Syrphidae), Wicken Fen, Cambs., 31.viii at *Succisa pratensis* Moench flowers; *Platycheirus melanopsis* Loew (Syrphidae), Ben Lawers, Perth., 16.vi, male hovering low over a path at 660 metres; *Cryptaciura rotundiventris* (Fall.) (Tephritidae), R. Tay, Dunkeld, Perth., 19.vi; *Themira gracilis* (Zett.) (Sepsidae), R. Spey, Boat of Garten, Inverness, 20.vi, swept from seepages; *Metopomyza ornata* (Meig.) (Agromyzidae), Wicken Fen, Cambs., 30.vii, swept from a small patch of *Butomus umbellatus* L.; *Macronychia unguis* (Pand.) (Sarcophagidae), Wicken Fen, Cambs., 30.vii, on *Pastinaca sativa* L. flowers; *Norellia spinipes* R.-D. (Scathophagidae), Waresley Wood, Cambs., 5.ix, swept in oak woodland.

SIMMONS, M. J.—Nineteen species of Diptera included in exhibit of insects from Andorra: mostly Syrphidae, among them several species of *Chrysotoxum* awaiting determination; some larger Brachycera and the large tachinid *Tachina grossa* (L.) were also included.

UFFEN, R. W. J.—*Norellia spinipes* (Meig.) (Scathophagidae): photographs of tenanted larval mines in wild daffodils, Cave Wood, Woolmer Green, Herts., 16.v.1992; the larvae fed in the white leaf bases, causing slight speckling; attacked leaves senesced somewhat prematurely; larvae had been found in some varieties of cultivated daffodils in the exhibitor's garden 1 km away.

WASS, A.—Ten species of Diptera from Dorset and Scotland: *Oxycera pardalina* Meig. (Stratiomyidae), Sutton Poyntz, Dorset, 25.vi.1992, on *Salix cinerea* L.; *O. morrisii* Curt., Weymouth, Dorset, 15.vii.1992, coastal seepage; *Bombylius minor* L. (Bombyliidae), Studland Heath, Dorset, 21.vii.1992, at *Erica cinerea* L.; *Conops ceriaeformis* Meig. (Conopidae), Winfrith Heath, Dorset, 17.vii.1992, on *Senecio jacobaea* L.; *Conops flavipes* L., Oakers Wood, Dorset, 4.viii.1991, 'var. *melanocephala* Meig.' on *Cirsium arvense* (L.) Scop.; *Sphaerophoria loewi* Zett. (Syrphidae), Skinsflats S. S. S. I., Stirlings., 16.vi.1992, swept from saltmarsh; *Cheilosia cynocephala* Loew (Syrphidae), Winfrith Heath, Dorset, 22.vii.1992, female on *Senecio jacobaea*; *Eristalis rupium* F. (Syrphidae), Falls of Leny, W. Perths., 15.vi.1992, on *Cirsium arvense* flower; *Paragus tibialis* (Fall.) (Syrphidae), Oakers Wood, Dorset, 19.v.1992; *Chamaesyrphus caledonicus* Collin (Syrphidae), Culbin Forest, Nairn, 15.vii.1991, male swept from grass on sand dunes, probably the third British record (also see under Exhibit by M. J. Parker above).

COLEOPTERA

ALEXANDER, K. N. A. AND FOSTER, A. P.—A selection of the more interesting beetles found during the National Trust's Biological Survey 1992 visit to Northern Ireland. Those species believed to be new to Ireland are indicated by an asterisk. All localities are N. T. land unless otherwise indicated. **Notiophilus aestuans* (Mots.), stony summit heath, Slieve Donard, Co. Down, 2.vii.1992; **Miscodera arctica* (Payk.), a few beneath stones in summit heath, Slieve Donard, 2.vii.1992; *Pterostichus oblongopunctatus* (F.), one in rotting log, Breen Oakwood N. N. R. (not N. T. land), Co. Antrim, 7.vi.1992, and another in similar situation at Murlough Bay, Co. Antrim, 11.vii.1992—a rare beetle in Ireland; *Lebia cruxminor* (L.), one active in poorly drained heathy pasture at Derrymacrow, Crom Castle Estate, Co. Fermanagh, 4.vi.1992—this is the third Irish record, the first from N. Ireland; **Agabus chalconatus* (Panz.), one in water trough within rough pasture surrounded by ancient woodland, Gole, Crom Castle Estate, 1.vi.1992, also found in *Sphagnum* pool on Argory Moss, Co. Armagh, 1.vii.1992; *Thanatophilus dispar* (Herbst), one in loughshore swamp by Upper Lough Erne, Crom Castle Estate, 26.vi.1992; *Aclypea opaca* (L.), a few beneath stones in summit heath, Slieve Donard, 2.vii.1992; *Silpha subrotundata* (Leach), found very widely, in Counties Antrim, Armagh, Donegal, Down, Fermanagh, and Londonderry, v/vi.1992; *Ampedus pomorum* (Herbst), a few beaten from *Salix* bush on edge of Garry Bog (not N. T. land), Co. Antrim, 7.vi.1992; *Dacne bipustulata* (Thunb.), very frequent on birch polypore and on elm bracket fungus in wet woodland at Springhill, Co. Londonderry, 25.vi.1992—a rare species in Ireland; *Halyzia 16-guttata* (L.), beaten from oak foliage, Crom Castle Park, 26.v.1992, and also beaten from oak at Florence Court, Co. Fermanagh, 3.vi.1992, and in Craigagh Wood, Co. Antrim, 17.vi.1992; *Orchesia undulata* Kraatz, one on dead rowan bough by Glenveagh Oakwood (not N. T. land), Co. Donegal, 14.vi.1992; **Tetratoma fungorum* F., one knocked from birch polypore in undercliff woodland at Murlough Bay, 16.vi.1992; **Abdera flexuosa* (Payk.), Inisherk Island, Crom Castle Estate, 1.vi.1992; *Alosterna tabacicolor* (Deg), plentiful in Reilly and Gole Woods, Crom Castle Estate, 28.v., 1.vi.1992—a rare species in Ireland; *Pogonocherus hispidus* (L.), single example from woodland on Inishfendra

Island, Crom Castle Estate, 28.v.1992; *Donacia aquatica* (L.), single example, Inishfendra Island, Crom Castle Estate, 28.v.1992; *D. bicolora* Zschach, *D. impressa* Payk., and *D. thalassina* Germ., widely and plentifully on loughshore vegetation on Crom Castle Estate, v.1992; *D. impressa* also by Ballydawley Lough (not N. T. land), Co. Sligo, 30.v.1992; *Oulema septentrionis* Weise, found very widely, in Counties Antrim, Down, and Fermanagh, v/vi.1992; *Longitarsus holsaticus* (L.), one swept from marsh lousewort in poorly-drained heathy pasture at Reilly, Crom Castle Estate, 28.v.1992; *Polydrusus mollis* (Strom), plentiful on fresh beech and hazel foliage in Collin Glen, Co. Antrim, 19.v.1992; *Magdalis armigera* (Fourc.), abundant on regrowth around base of dead elm in Castle Coole Park, Co. Fermanagh, 2.vi.1992; *Mesites tardii* (Curt.), widely found, in dead wood in woods and parks, and also in driftwood on seashore, in Counties Antrim, Armagh, Donegal and Fermanagh, v/vii.1992; *Notaris scirpi* (F.), widespread and plentiful along lough margins, Crom Castle Estate, Co. Fermanagh, 27.v, 1.vi.1992; *Orthochaetes setiger* (Beck), one swept from ground flora in sycamore woodland below heathy crags, Port Vantage, Downhill, Co. Londonderry, 9.vi.1992; *Litodactylus leucogaster* (Marsh.), Lough Coole, Castle Coole Estate, Co. Fermanagh, 2.vi.1992; *Eubrychius velutus* (Beck), swept in numbers from grazed margins of small lough at Corlatt, Crom Castle Estate, 27.v.1992; *Phytobius comari* (Herbst), Inishfendra Island, Crom Castle Estate, 28.v.1992; *Gymnetron villosulum* Gyll., swept from wetland at Crom Castle Estate, 26.v.1992.

HALSTEAD, A.—(1) Some local Coleoptera taken in 1992. *Cicindela campestris* L., Braes of Foss, Mid Perth, 16.viii.92, a specimen lacking the usual yellow elytral spots. *Nicrophorus vespilloides* Herbst, Chobham Common, Surrey, 2.viii.92, swept. *Agrilus pannonicus* (Pill & Mitt.), Richmond Park, Surrey, 6.vi.92, on dead oak stump. *Platycis minutus* (F.), Chobham Common, Surrey, 9.viii.92, swept. *Abdera quadrifasciata* (Curt.), Richmond Park, Surrey, 6.vi.92, on fallen oak branches. *Aseum striatum* (L.), Witley Common, Surrey, 16.v.92, on Scots pine sapling. *Anisotoma humeralis* (F.), Chobham Common, Surrey, 12.vii.92, in fungus on fallen pine. *Byrrhus pustulatus* (Forst.), Witley, Common, Surrey, 16.v.92, swept off heather. *Melanophila acuminata* (Deg.), Chobham Common, Surrey, 12.vii.92, on burnt birch trunk. *Soronia punctatissima* (Ill.), Knaphill, Surrey, 30.vii.92, at m. v. light. *Mordellistena neuwaldeggiana* Panz., Knaphill, Surrey, 19.vii.92, on hogweed umbel. *Cryptocephalus parvulus* Müller O. F., Chobham Common, Surrey, 2.viii.92, swept off heather. *C. pusillus* F., Chobham Common, Surrey, 23.vii.92, swept. *Clytra quadripunctata* (L.), Falls of Leny, West Perth, 15.vi.92, swept. *Cassida vittata* de Villers, Mayford, Surrey, 1.viii.92, in polythene tunnel.

(2) Three exotic beetles brought to Wisley Garden. An unidentified tortoise beetle (Chrysomelidae) found dead on 10.viii.92 amongst the leaves of an air plant (*Tillandsia* sp.) being grown as a house-plant. Country of origin unknown. *Helenophorus collaris* L. (Tenebrionidae), received on 11.viii.92 from a holiday-maker from whose suitcase the beetle had crawled upon return from a holiday in Spain. *Lagocheirus undulatus* (Voet) syn. *obsoletus* (Thom.) (Cerambycidae), received on 15.ix.92; emerged from the stem of frangipani (*Plumeria* sp.) being grown as a pot plant. The plant was obtained as an uprooted cutting at Chelsea Flower Show in May 1992. The supplier was a firm called Roberta's of Shelbyville, Indiana, U.S.A. This species is able to make a squeaking noise when agitated.

HOARE, D. I. B.—Some interesting beetles found during conservation and survey work for the Hampshire and Isle of Wight Wildlife Trust during 1992, with a selection of others from various localities. *Carabus nitens* L., New Forest, South Hants., 26.iv.92, under stone. *Bembidion litorale* (Ol.), River Feshie, Easternness, 28.v.92, on sand. *Zabrus tenebrioides* (Goeze), Abbotstone Down, North Hants., 30.vii.92,

on *Pastinaca sativa* L. umbel. *Demetrias imperialis* (Germar), Lower Test Marshes, South Hants., 11.vii.92. *Cetonia aurata* (L.), Kynance Cove, West Cornwall, 6. vii.92, on *Rubus* flower. *Silis ruficollis* (F.), Lower Test Marshes, South Hants., 13.vi.92, on walkway. *Malachius marginellus* (Ol.) and *Anisosticta novemdecimpunctata* (L.), Lower Test Marshes, South Hants., 3.vi.92. *Coccinella quinquepunctata* L., River Nethy, Elgin, 27.v.92, on shingle. *Coccinella magnifica* (Redt.), Roydon Woods, South Hants., 25.vii.92, on *Pinus sylvestris* L. *Melandrya barbata* (F.), New Forest, South Hants., 31.v.92, on dead *Fagus* bough. *Rhagium inquisitor* (L.), Pass of Ryvoan, Easternness, 24.v.92, on *Pinus* log. *Leptura fulva* (Deg.), Lower Test Marshes, South Hants., 18.vii.92, on *Cirsium arvense* L. (Scop.) flower. *Metoeus paradoxus* (L.), North Baddesley Common, South Hants., 24.ix.92, on tree-trunk. *Clytra quadripunctata* (L.), Crab Wood, Winchester, South Hants., 14.vii.92, on *Salix*. *Cryptocephalus bipunctatus* (L.), New Forest, South Hants., 31.v.92, in ditch and on grass. *Plagioderma versicolora* (Laich.), Lower Test Marshes, South Hants., 3.vi.92, on *Salix fragilis* L. *Cassida murraea* L., Lower Test Marshes, South Hants., 11.vii.92. *Leptinotarsa decemlineata* Say, Western France, 12.ix.92, dead specimen on beach.

HODGE, P. J.—Fourteen species of Coleoptera, including four new to Sussex (*). *Pterostichus gracilis* (Dej.), Powdermill Reservoir, East Sussex, 28.vi.92. *Anisodactylus nemorivagus* (Duft.), Stagbury Hill, New Forest, South Hants., 10.iv.92. *Haliphus varius* Nicolai, Powdermill Reservoir, East Sussex, 17.ix.92, swept off *Polygonum* on mud-flats. *Paederus caligatus* Er., Stagbury Hill, New Forest, South Hants., 10.iv.92, in *Sphagnum*. *Atheta (Philhygra) debilis* (Er.), Powdermill Reservoir, East Sussex, 26.ix.92, swept. **Atheta (Philhygra) nannion* Joy, Combe Haven Level, East Sussex, 3.vii.91, in flood refuse. (This specimen was exhibited as *Atheta (Philhygra) debilis* (Er.) at the 1991 BENHS Exhibition on 26.x.91—*Br. J. Ent. Nat. Hist.* 5:74.) *Aphodius consputus* Creutz., West Hythe, East Kent, 17.x.92, in dyke. *Agriotes sordidus* (Ill.), Fishbourne, West Sussex, 23.iv.92, under tidal refuse. *Mordellistena humeralis* (L.), Stanmore Common, Middlesex, 29.vii.92, on *Angelica* umbel. *Gracilla minuta* (F.), Filborough Marshes, West Kent, 13.v.92, in dead stems of cultivated *Rubus*. *Macrolepta appendiculata* (Panz.), Talkin Tarn, Cumberland, 6.vi.92. **Sitona puberulus* Reitt., Holman Wood, near Brede, East Sussex, 20.ix.92, on *Lotus pedunculatus* Cav. **Rhinoncus albicinctus* Gyll., Powdermill Reservoir, East Sussex, 17.ix.92, swept off *Polygonum* on mud-flats. **Lathrobium fennicum* Renk., Rye Harbour, East Sussex, 12.iv.92, in *Phragmites* litter in reed-bed, not previously recorded from British mainland, but known from Tresco in the Isles of Scilly.

KEY, R. S. AND R.—Beetles, mainly carabids, from Whittrigg Bridge on the Wampool Estuary, Kirkbride, Cumberland on 6.vii.92. *Dyschirius angustatus* (Ahrens), *D. globosus* (Herbst), *D. impunctipennis* Dawson, *D. nitidus* (Dejean), *D. politus* (Dejean), *D. salinus* Schaum, *Asaphidion pallipes* (Duft.), *Bembidion bipunctatus* (L.), *B. lunatum* (Duft.), *Agonum nigrum* Dejean, *Agathidium marginatum* Sturm, *Polydrusus pulchellus* Steph.

LOTT, D. A.—Scarce and interesting beetles from riparian and wetland habitats in the River Soar floodplain, Leics. and Notts., collected between 1982 and 1992. Species of *Atheta (Philhygra)* were mainly represented by females to show specific differences in the genital segment. *Blethisa multipunctata* (L.), *Clivina collaris* (Herbst), *Trechus discus* (F.), *T. micros* (Herbst), *T. secalis* (Payk.), *Bembidion obliquum* Sturm, *B. gilvipes* Sturm, *B. clarki* (Daws.), *B. fumigatum* (Duft.), *Tachys parvulus* (Dej.), *Pterostichus anthracinus* (Panz.), *P. gracilis* (Dej.), *Agonum livens* (Gyll.), *Acupalpus consputus* (Duft.), *Chlaenius nigricornis* (F.), *Helophorus nanus* Sturm, *Cercyon bifeneistratus* Kuster, *C. marinus* Thoms., *C. tristis* (Ill.), *C. ustulatus* (Preys.), *Ochthebius bicolon* Germ., *Acrotrichus henrici* (Matth.), *Carpelimus* sp. indet.,

C. bilineatus Steph., *C. corticinus* (Grav.), *C. despectus* (Baudi), *C. elongatulus* (Er.), *C. gracilis* (Mann.), *C. impressus* (Bois. & Lac.), *C. lindrothi* Palm, *C. obesus* (Kies.), *C. pusillus* (Grav.), *C. rivularis* (Mots.), *C. similis* Smetana, *C. subtilicornis* (Roubal), *C. subtilis* (Er.), *C. zealandicus* (Sharp), *Platystethus nitens* (Sahl.), *P. nodifrons* (Mann.), *Anotylus insecatus* (Grav.), *Oxytelus fulvipes* Er., *Stenus argus* Grav., *S. carbonarius* Gyll., *S. nanus* Steph., *Lathrobium pallidum* von Nordmann, *L. ripicola* Czwaliņa, *Neobisnius villosulus* (Steph.), *Gabrius appendiculatus* Sharp, *G. bishopi* Sharp, *G. pennatus* Sharp, *Deinopsis erosa* (Steph.), *Myllaena* (?) *masoni* Matth., *Tachyusa coarctata* Er., *Gnypeta ripicola* (Kiesenw.), *G. velata* (Er.), *Brachyusa concolor* (Er.), *Schistoglossa gemina* (Er.), *Dochmonota clancula* (Er.), *Liogluta nitidula* (Kraatz), *Atheta (Philhygra) debilis* (Er.), *A. (P.) elongatula* (Grav.), *A. (P.) gyllenhali*, (Thoms.), *A. (P.) hygrobia* (Thoms.), *A. (P.) hygrotopora* (Kraatz), *A. (P.) luridipennis* (Mann.), *A. (P.) malleus* Joy, *A. (P.) melanocera* (Thoms.), *A. (P.) nannion* Joy, *A. (P.) volans* (Scriba), *Atheta (Dilacra) luteipes* (Er.), *Atheta basicornis* (Muls. & Rey), *Calodera uliginosa* Er., *Deubelia picina* (Aube), *Oxypoda exoleta* Er., *O. lentula* Er., *Flautiauxellus quadripustulatus* (F.), *Ctenicera pectinicornis* (L.), *Selatossomus nigricornis* (Panz.), *Rhizophagus picipes* (Ol.), *Notaris bimaculatus* (F.), *Baris lepidii* Germar.

MALUMPHY, C.—A specimen of the red-spotted longhorn, *Batocera rufomaculata* (Deg.), (Cerambycidae), intercepted in the U.K. on imported crated goods from India on 24.viii.92 by M. Lole.

OWEN, J. A.—Some uncommon British beetles. *Tachys walkerianus* Sharp, Cobham, Surrey, ix.75, in flood debris by the River Mole; another example was taken at Brockenhurst, South Hants., in xii.89, also in flood debris. *Agonum quadripunctatum* (Deg.), Windsor Forest, Berkshire, v.80, one specimen under burnt log. *Agabus wasastjernae* Sahl., Abernethy Forest, Easternness, ii.92, in pool in pine wood. *Hister bisexstriatus* F., New Forest, South Hants., iv.92, crawling on grass. *Agathidium confusum* Bris., Headley, Surrey, v.90, in flight interception trap. *Eutheia formiceticola* Reitt., Windsor Forest, Berkshire, ii.89, in wood mould from old beech tree. *Microscydmus nanus* (Schaum), Headley, Surrey, vii.91, in flight interception trap. *Medon castaneus* (Grav.), Ripley, Surrey, i.91, in a mole's nest in a sandy area. *Scopaeus laevigatus* (Gyll.), Powdermill Reservoir, East Sussex, ix.92, two examples swept from vegetation over damp mud. *Tachyusa scitula* Er., bank of the Nethy, Elgin, vii.92, in pitfall trap in sandy area. *Meotica anglica* Benick, Ripley, Surrey, ii.89, in a mole's nest on sandy river bank. *Ampedus tristis* (L.), Rannoch, Mid Perth, vi.90, bred from a larva found in old pine stump; adult emerged in iv.91. *Globicornis nigripes* (F.), Windsor Great Park, Berkshire, vii.86, swept. *Nephus quadrimaculatus* (Herbst), Darenth, West Kent, viii.91, several beaten from ivy. *Ceutorhynchus parvulus* Bris., Bolberry Down, South Devon, v.92, on *Lepidium campestre* (L.) R.Br. *Pityophthorus lichtensteini* (Ratz.), Braemar, South Aberdeen, ix.91, bred from pine twigs; adults emerged in vi.92. *P. pubescens* (Marsh.) was exhibited for comparison with *P. lichtensteini*.

PARSONS, M.—A selection of beetles found in 1992. *Ampedus cardinalis* (Schiodte), *Agrilus pannonicus* (Pill. & Mitt.), *A. sinuatus* (Ol.) and *Opilo mollis* (L.) from Richmond Park, Surrey. *Ischnomera cyanea* (F.), *I. sanguinicollis* (F.) and *Donacia impressa* Payk. from Blenheim Park, Oxfordshire. *Pilemostoma fastuosa* (Schall.) from Westcott Downs, Surrey. *Ampedus sanguinolentus* (Schr.) from Lavington Common, West Sussex. *Rhynchites cavifrons* Gyll. from Orlestone Forest, East Kent.

PLANT, C. W.—Some examples of Hertfordshire beetles which are apparently local or rare in that county. *Microlestes maurus* (Sturm), Bishop's Stortford, TL 4820,

iv.88, in pitfall trap in lawn. *Colymbetes fuscus* (L.), Much Hadham, TL 4217, 29.vii.91 at m.v. light. *Nicrophorus interruptus* Steph. Tewin Orchard N.R., TL 2615, 30.vii.90, at m.v. light. *Philonthus atratus* (Grav.), Bishop's Stortford, TL 4820, ix.88, in garden malaise trap. *P. varius* (Gyll.), Bishop's Stortford, TL 4820, ix.88, in garden malaise trap. *Tachyporus pallidus* Sharp, Bishop's Stortford, TL 4820, 18.iii.89, in leaf litter in garden. *Stenagostus rhombeus* (Ol.), Stocking Wood, TL 4521, 22.vii.91, at m.v. light. *Pentarthrum huttoni* Woll., Bishop's Stortford, TL 4820, 15.v.88, tunnelling in bathroom skirting board.

SIMMONS, M. J.—A selection of beetles from Andorra.

HEMIPTERA

ALEXANDER, K. N. A. AND FOSTER, A. P.—A selection of the more interesting Heteroptera found during the National Trust's Biological Survey in Northern Ireland in 1992. All localities listed are National Trust land unless otherwise indicated. *Liorhyssus hyalinus* (F.), Murlough N. N. R., Co. Down, 20.v.92, single example by sweeping fore-dunes. *Pachybrachius fracticollis* (Schilling), Corraharra Lough, Crom Castle Estate, 27.v.92. *Neides tipularius* (L.), Murlough N. N. R., Co. Down, 21.v.92, one on dock on eroding fore-dunes; only one other Irish locality. *Metatropis rufescens* (H.-S.), Gole Wood, Crom Castle Estate, 1.vi.92; Rostrevor Oakwood (not National Trust land), Co. Down, 28.vi.92.

CHALMERS-HUNT, J. M.—*Ledra aurita* (L.), West Wickham, Kent, 8.viii.92, at m.v. trap in garden; det. M. D. Webb.

HODGE, P. J.—*Eurydema dominulus* (Scop.), Holman Wood, near Brede, E. Sussex, TQ7920, 20.ix.92, single examples swept from heathy woodland clearing by P. J. Hodge and D. A. Porter. *Megalonotus dilatatus* (H.-S.), Stagbury Hill, New Forest, S. Hampshire, SU2816, 10.iv.92.

KNILL-JONES, S. A.—Heteroptera from Freshwater, Isle of Wight. *Acanthosoma haemorrhoidale* (L.), 18.vi.83, 19.ix.91, 20.ix.91 & 11.x.91. *Elasmotethus interstinctus* (L.), 5.ix.91 & 11.ix.92, at m.v. trap. *Palomena prasina* (L.), 5.x.82, 16.vi.83, 9.xi.83, 17.viii.91 & 13.x.91. *Piezodorus lituratus* (F.), 6.x.83, 22.x.83 & 18.vi.84. *Pentatomia rufipes* (L.), 2.ix.91 & 18.ix.92, at m.v. light. *Coreus marginatus* (L.), 16.vii.83, in garden. *Callicorixa praeusta* (Fieb.), 26.viii.91, four from over 300 taken at m.v. trap. *Corixa punctata* (Ill.), 9.viii.91, m.v. trap.

HYMENOPTERA

ARCHER, DR M. E.—Some aculeate wasps and bees from Guernsey and Herm collected during 1991, many of which are scarce on the U.K. mainland. The U.K. distribution of *Evagetus siculus* and *Andrena agilissima* is confined to the Channel Islands. Pompilidae: *Evagetus siculus* (Lep.), Vazan Bay, Guernsey, 9.viii; *E. pectinipes* (L.), L'Ancrese, Guernsey, 4.viii; *Aporus unicolor* Spin., Pleinmont, Guernsey, 9.viii. and on Herm, 8.viii. Sphecidae: *Philanthus triangulum* (F.), 27.vii and 4.viii. *Nysson interruptus* (F.), 29.vii. *Gorytes laticinctus* (Lep.), 4.viii. *Argogorytes fargei* (Shuck.), 29.vii, all at L'Ancrese, Guernsey; *Tachysphex obscuripennis* (Schenck), Herm, 1.viii and Petit Bot, Guernsey, 2.viii; *Podalonia affinis* (Kirby), Pleinmont, Guernsey, 9.viii; *Diodontus insidiosus* Spooner, Lihon Head, Guernsey, 31.vii. Andrenidae: *Andrena agilissima* (Scop.), L'Ancrese, Guernsey, 27.vii; *A. fulvago* (Christ), Torteval coast, Guernsey, 30.vii. Halictidae: *Lasioglossum quadrinotatum* (Kirby), Torteval coast, 30.vii and Petit Bot, both Guernsey, 2.viii. Anthophoridae: *Anthophora retusa* (L.),

4.viii, *Nomada fulvicornis* F., 29.vii and *N. fucata* Panz., 4.viii, all at L'Ancrese, Guernsey. *N. fucata* was also taken at Cobo Bay, Guernsey, 29.vii.

HALSTEAD, A. J.—Some sawflies and other Symphyta taken in 1992, mostly in Scotland, by the exhibitor except where stated. Pamphiliidae: *Acantholyda posticalis* Matsumura, 16.vi, Skin Flats, near Grangemouth, Stirl. Siricidae: *Sirex cyaneus* F., found dead in an office, 25.vi, RHS Garden, Wisley, Surrey. Cimbicidae: *Trichiosoma sorbi* Hartig, 15.vi, near Falls of Leny, near Kilmahog, W. Perth. Tenthredinidae: *Heptamelus ochroleucus* (Steph.), 14.vii Damhead Wood, near Dollar, W. Perth. and col. A. Stubbs, 18.vi, Darnrig Moss, Stirl.; *Brachythops wuestnei* (Konow), col. E. Howe, 18.vi, Mugdock Wood near Glasgow, Stirl.; *Heterarthrus microcephalus* (Klug), 2.viii, Chobham Common, Surrey; *H. nemoratus* (Fall.), 19.vi, Loch Leven, Fife; *Empria immersa* (Klug) 17.v, Chobham Common, Surrey; *Ardis brunniventris* (Hartig), col. A. Godfrey, 14.vi, Burntisland—Kirkcaldy coast, Fife; *Tenthredo balteatus* Klug, 18.vi, Water of Ruchill, Auchnashelloch, Mid Perth., and col. A. Godfrey 16.vi, Stronvar Marshes, W. Perth.; *Tenthredo moniliata* Klug, 20.vi, Auchenbowie Burn, north of Loch Coulter Reservoir, Stirl.; *Nematus acuminatus* (Thom.), 15.vi, near Falls of Leny, near Kilmahog, W. Perth.; *Croesus varus* (Villaret) and *Pristiphora testacea* Jurine, both 2.viii, Chobham Common, Surrey; *Nematus flavescens* Steph. and *N. reticulatus* Holmgren, both 17.vi, Ben Lawers, mid Perth. *N. reticulatus* was also taken by E. Howe, 19.vi, Tomdachoille Island, River Tummel, E./Mid Perth.

HODGE, P. J.—A specimen of the sphecoid wasp *Philanthus triangulum* (F.), sometimes known as the bee wolf as it preys on honeybees. The specimen was taken at Lodge Marsh Dunes (part of Holkham N.N.R.), Wells-next-the-Sea, W. Norf. on 10.viii.92. This is the most northerly record in Britain for this scarce species.

SIMMONS, M. J.—Some sawflies and other hymenoptera taken in Andorra in late July–early August 1991. These included *Arge nigripes* (Retz.), *A. ustulata* (L.), *Rhogogaster viridis* (L.), *Tenthredo notha* (Klug) and *T. arcuata* Forst.

UFFEN, R. W. J.—Photographs and pinned specimens showing the same aculeate community nesting in dumped gravel and builders' debris on the floor of a chalk pit at Harefield, Middx., as in the natural gravel capping stratum. A strong colony of the halictid bee, *Lasioglossum parvulum* (Schenck) was accompanied by the cleptoparasitoids *Nomada fabriciana* (L.), *N. marshamella* (Kirby) and *N. flava* Panz. The fly *Bombylius major* L. was seen laying eggs in the general area of the *Lasioglossum* burrows on 13.v.92.

NEUROPTERA

PLANT, C. W.—Two lacewings of the Chrysopidae family: *Nothochrysa fulviceps* (Steph.) from Nagyoldal, Hungary, 28.viii.81 and *N. capitata* (F.) from Denham, Bucks, 11.viii.80. The latter is relatively common but *N. fulviceps* has not been recorded in Britain since 1958. It resides in tree tops so may have been overlooked. The two species may readily be distinguished by the yellow thoracic stripe and bright orange head of *fulviceps* (Plate II, Fig. 12), while *capitata* has a uniformly brown thorax and paler head.

SIMMONS, M. J.—Two neuropterans collected in Andorra in 1991: *Mantispa styriaca* and *Neuroleon nemaïsiensis*.

ORTHOPTERA AND PHASMIDAE

CRONIN, A. R.—Specimens of an unidentified cricket and leaf insect found in a coco plantation at San Pablo, Philippines, October 1991.

HALSTEAD, A. J.—Last year's live exhibit of an unidentified praying mantis pinned to show the colourful hind wings. The mantis was found as a final instar nymph on orchids imported into Britain from Thailand in July 1991.

MALUMPHY, DR C.—A live specimen of the Egyptian grasshopper *Anacridium aegyptium* (L.) (Orthoptera: Acrididae) found at Sheerness Docks on a lorry from Germany on 28.x.92.

MYRIAPODA

LONSDALE, D., CARTER, C. AND TAIT, H.—A freeze-dried specimen of the centipede *Scutigera coleoptrata* (Scutigermorpha: Scutigeridae) found in a house at Alton, Hants., on about 4.ix.92. This is believed to be only the fourth record for the UK mainland of this mainly southern European species. It is established on the Channel Islands from where it may have travelled with cut flowers. While alive it readily fed on first instar nymphs of the stick insect *Carausius morosus*. It frequently cleaned all its legs, using its mouthparts and working in strict sequence from front to rear.

ILLUSTRATIONS

HARLEY, B.—Exhibit of illustrations by Richard Lewington (colour photocopies only) of plates 1–3 Yponomeutidae for volume 3 of *Moths and butterflies of Great Britain and Ireland*. Also included were monochrome figures of coleophorid cases, *C. argentula* Steph., *C. vibicella* Hübn. and *C. onosmella* Brahm.

MURPHY, F.—Photographs of spiders from South East Asia.

PORTER, J., CHURCH, S. H. AND SKINNER, B.—Photographic illustrations of over 815 different larvae of British Macrolepidoptera. The results of 12 years work, about 25 more species are required to make the work complete to include all indigenous and regular migrants.

SKINNER, B. AND ELLIOT, B.—Photographs showing larvae, pupae and habitat of *Eublemma ostrina* Hübn. found in flower heads of carline thistle in the Burren, Co. Clare and on Inisheer, Aran Islands, Co. Galway during August, 1992.

SOFTLY, R. A.—(1) Slides of species recorded at actinic light, once only during 1979–1992. *Thera juniperata* L. 20.x.85, a species known to support colonies widely on garden juniper. *Chesias rufata* F. 27.iv.86, the food plant, broom, grows sparsely on Hampstead Heath. *Hydrelia flammeolaria* Hufn., 11.vii.82 at Kenwood, the foodplant, field maple may be a survivor where it is found in ancient hedges on Hampstead Heath, but it has recently increased as a planted species. *Acasis viretata* Hübn. 18.v.82 at Kenwood, there is no shortage of the foodplant, stated to be flowers of holly and ivy etc. *Celaena leucostigma* Hübn., 13.viii.86, foodplant: yellow iris etc. *Rhizedra lutosus* Hübn., foodplant: common reed. The last 2 species could conceivably maintain populations among sparse stands of their foodplants that persist on the margins of some of the Hampstead Heath ponds. All the above are new records for the North London Heights (with the exception of the last, which according to De Worms was noted by Andrewes at Highgate in 1911).

(2) Coloured slides of the following species from Alderney in the channel Islands: *Thera cupressata* H.G., 28.ix.92; *Leucochlaena oditis* Hübn., 27.ix.92, one of the several trapped in England very local on the south-west coast; *Mythimna vitellina* Hübn., 28.iv.92, one of several trapped, a well known immigrant to Britain that is

probably resident on Alderney; *Chloroclysta truncata* Hufn. 26.ix.92, other more normal darker examples of the species were seen. This resembled the light specimens known from Scotland. The above are among the more noteworthy of 55 species of moths recorded of Alderney 21.ix to 2.x.92.

UFFEN, R. W. J.—*Norellia spinipes* Meig. (Diptera: Scathophagidae): photographs of tenanted larval mines in wild daffodils, Cave Wood, Woolmer Green, Herts., 16.v.92.

WARING, P.—National Recording Network and Atlas Project for Britain's rarer macro-moths. A display showing sample maps and text for the forthcoming atlas.

PLEA FOR A PHOTOGRAPHER

The Society is indebted to Mr David Wilson for photographing specimens at the Annual Exhibitions over many years, that colour plates could be published in the Journal. These plates have contained many rare species and unusual variations and aberrations not previously figured in the literature. The high quality of the photographs, and hence the resulting plates, has enhanced the reputation of the Journal and of the Society.

After having carried out the task of 'official photographer' for some time, David would like to hand this duty over to a successor for the 1993 and subsequent Annual Exhibitions. Anyone feeling that they have the equipment and sufficient experience to continue David's work are asked to contact him, or alternatively to contact the Editor, Richard A. Jones, 13 Bellwood Road, Nunhead, London SE15 3DE. Tel: 071 732 2440.

Plate III. ANNUAL EXHIBITION 1992

1	2	3	4
		5	6
			7
8	9	10	11
12		13	
14	15	16	
17		18	

- 1: *Charanyca trigrammica*, Slough, Bucks., 5.vi.92, R. Hayward.
- 2: *Calamatropha paludella*, f. *nivella*, Rushey Mead, Essex, 29.vi.92, C. W. Plant.
- 3: *Eupithecia sinuosaria*, Rothamsted, Harpenden, Herts., 21.vi.92, A. Riley & M. Townsend.
- 4: *Lampropteryx otregiata*, Dinas near Harlech, Gwynedd, 5.viii.92, R. McCormick.
- 5: *Lasiocampa quercus* gynandrous, bred, Eastbourne, 17.viii.92, A. Harbottle.
- 6: *Hypsopygia costalis*, Niton, I.o.W., 29.vii.92, S. Knill-Jones.
- 7: *Aspitates ochrearia*, Dungeness, Kent, 4.v.90, B. Elliott.
- 8: *Heliothis nubigera*, Swanage, Dorset, 14.v.92, B. Skinner.
- 9: *Earias insulana*, St Austell, Cornwall, 13.vi.92, W. Kittle.
- 10: *Eublemma ostrina*, bred, Co. Clare, ix.92, B. Skinner.
- 11: *Elophila nymphaeata*, Matley Bog, New Forest, Hants., 15.iv.92, B. Skinner.
- 12: *Orthosia cruda*, Hamstreet, Kent, 10.iv.92, S. Clancy.
- 13: *Pempeliella ornatella*, Burren, Co. Galway, 22.iv.90, B. Skinner.
- 14: *Spargania luctuata*, Warehorne, Kent, 4.viii.90, A. Riley & M. Townsend.
- 15: *Lomasipilis marginata*, Keilder, Northumb., 26.vi.88, A. Riley & M. Townsend.
- 16: *Philudoria potatoria*, ab. *bicolor* Stonelees, Kent, 10.vii.92, R. McCormick.
- 17: *Arctia villica*, Dungeness, Kent, 1.vi.92, M. Parsons.
- 18: *Crocallis elinguaris*, Smitterfield, Warwickshire, 3.viii.91, A. Kolaj.

Photo: D. E. Wilson